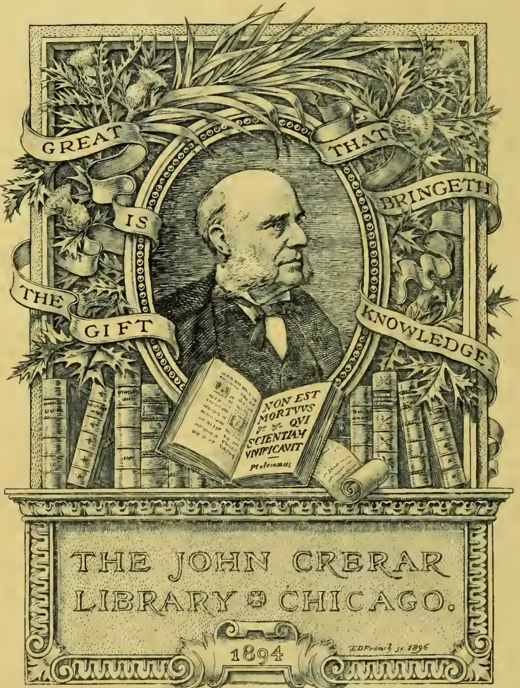
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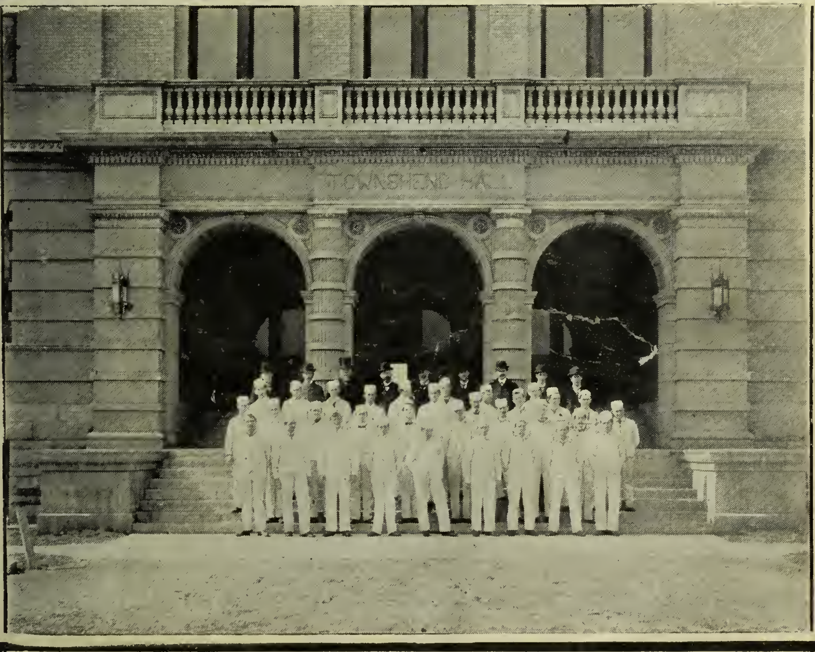
University Bulletin

Series 4. No. 14.

1899-1900.

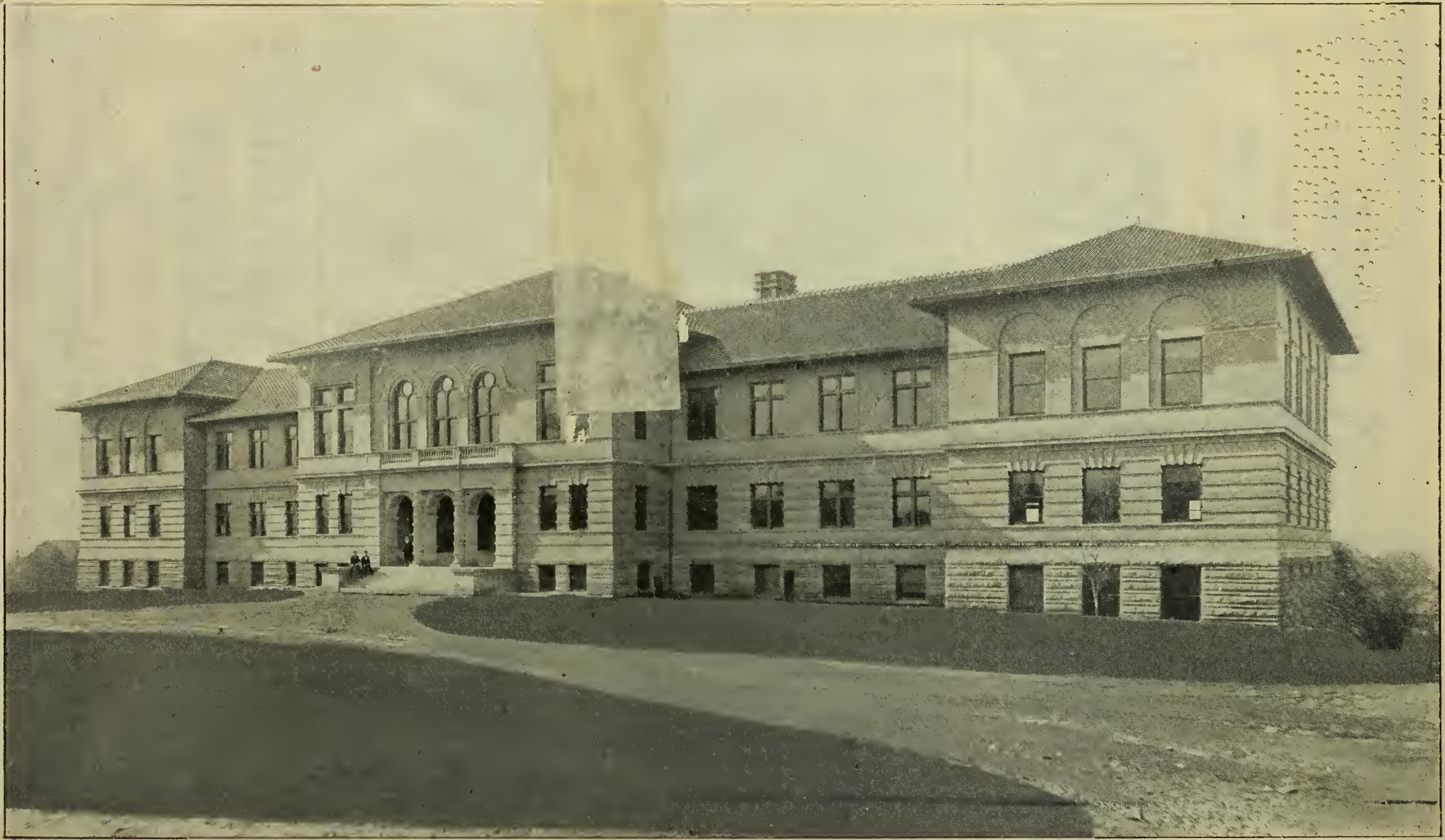
Ohio State University



The College of Agriculture and Domestic Science.

COLUMBUS

PUBLISHED BY THE UNIVERSITY. JULY, 1899.



TOWNSHEND HALL. OHIO STATE UNIVERSITY.

THE UNIVERSITY.

Orton Tower.

It should be noted that the Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science.
The College of Arts, Philosophy and Science.
The College of Engineering.
The College of Law.
The College of Pharmacy.
The College of Veterinary Medicine.

Each of the above named colleges is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that particular college.

The aim of the University is to give to the young men and women of Ohio the largest possible opportunity for both general and special training, in order to prepare them for the various duties of life.

COURSES OF INSTRUCTION.

The College of Agriculture and Domestic Science offers six distinct courses of study:

1. *A four year's course in Agriculture.*
2. *A four year's course in Horticulture and Forestry.*
3. *A four year's course in Domestic Science.*
4. *A two year's course in Agriculture and Horticulture.*
5. *A two year's course in Domestic Science.*
6. *A winter term course in Dairying.*

I—THE FOUR YEAR COURSES.

These are full collegiate Courses, leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry, and Bachelor of Science in Domestic Science.

The general education and training is fully as broad and liberal as that given by the other four year courses in the University.

It is the aim of the College to teach not only the arts of Agriculture, Horticulture and Domestic Science, but the sciences upon which these arts are based.

Instruction in the various courses is given by twenty different departments of the University. These include Agriculture, Agricultural Chemistry, Botany, Domestic Science, Drawing, English, Entomology, French, Geology, German, History and Political Science, Horticulture and Forestry, Industrial Art, Mathematics, Military Science and Tactics, Physics, Physiology, Rhetoric, Veterinary Medicine, and Zoology. Seventy distinct subjects or courses of instructions are offered by the different departments. For fuller outline see pages 12, 13, and 15.

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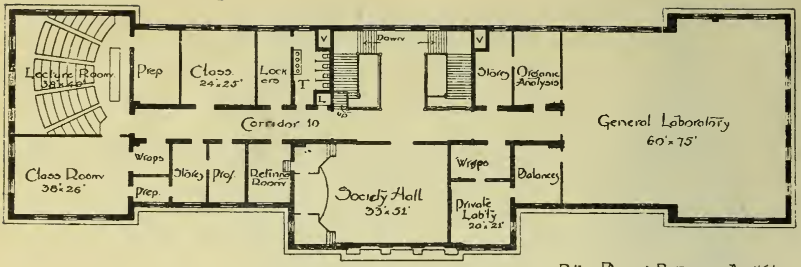

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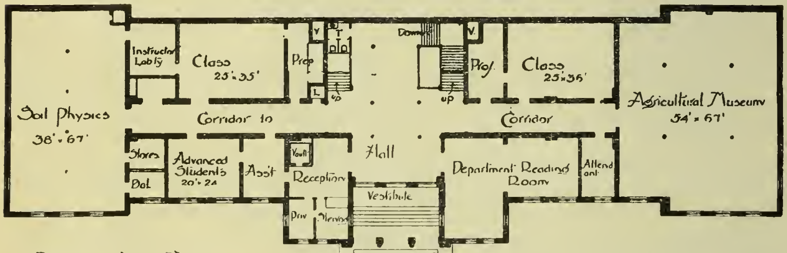
– Dayton O. –

- PLAN OF SECOND FLOOR -
- TOWNSHEND HALL - OHIO STATE UNIVERSITY -



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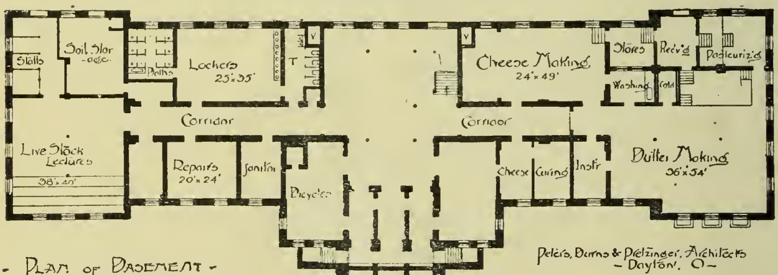

- PLAN OF BASEMENT -

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TOWNSHEND HALL - OHIO STATE UNIVERSITY -

II—THE TWO YEAR COURSES.

There are two two-year courses, one in Agriculture and the other in Domestic Science. The first, known as the Short Course in Agriculture, includes Horticulture, and the student may select, if he chooses, principally horticultural studies. This course contains as thorough instruction in agriculture, animal industry, dairying, horticulture (including fruit culture, vegetable gardening and floriculture), forestry, veterinary medicine, economic entomology and the sciences underlying these subjects, as the time will admit. For fuller outline see page 11 and 16.

III—WINTER TERM COURSE IN DAIRYING.

The course in Dairying is established to meet the wants of those who have neither the time nor means for the above extended courses. It is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and contents of butter fat ; the use and care of centrifugal separators and other dairy devices ; the making of butter and cheese by the most improved methods ; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock : the diseases of the cow ; the chemistry of milk ; the effect of bacteria and other agents upon milk and its products ; the care of boilers and engines and similar subjects.

The course in Dairying begins the first Wednesday in January ; all other courses begin on Wednesday following the tenth of September. Students wishing to take the course in Dairying should send for special pamphlet entitled "The Dairy School."

REQUIREMENTS FOR ADMISSION.

The following are the requirements for admission to the four-year courses. Applicants must be at least sixteen years of age and either present credits or pass an examination in the following subjects :

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*

2. *English* (*a*)—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience ; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

(*b*) English classics—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books ; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself throughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite ;* Milton's *Paradise Lost*, Books I and II ; *Pope's Iliad*, Books I, VI, XXII, and XXIV ; The Sir Rodger de Coverley Papers in *The Spectator* ; Goldsmith's *The Vicar of Wakefield* ; Scott's *Ivanhoe* ; Cooper's *The Last of the Mohicans* ; Lowell's *The Vision of Sir Launfal* ; Hawthorne's *The House of Seven Gables.*

3. *Algebra*—Venable's Easy Algebra, complete or equivalent.

4. *Plane Geometry*—Venable, Wentworth, White or Wells, or equivalent.

5. *Botany*—Gray or Kellerman's Botany and Flora, or equivalent.

6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton, or equivalent.

7. Either of the following:

Civil Government—Fiske or Thorpe preferred.

History—Meyer's *General History*, or equivalent.

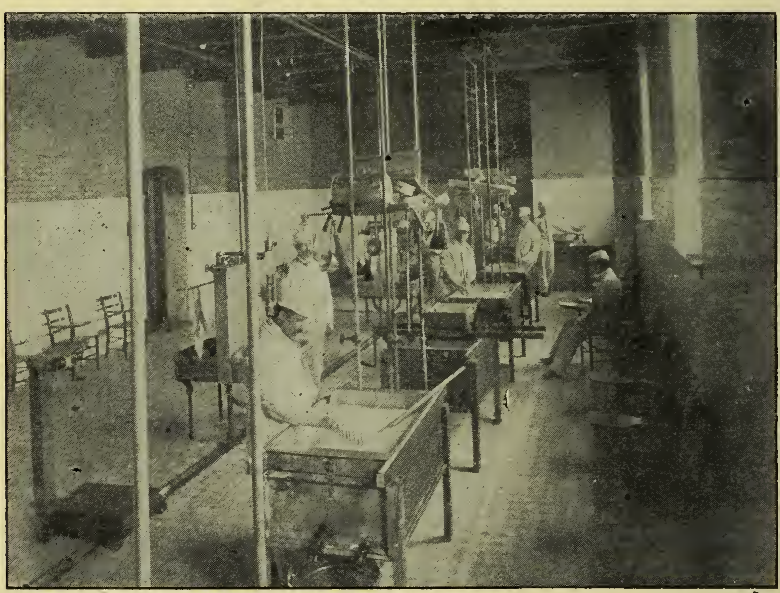
8. *Latin*—Pronounciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico.*

Or French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French, and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar and the second devoted to reading good modern French. The texts read should be chiefly narrative and conversational prose; modern, rather than classic, dramas should be read.

Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Liechenstein;* Lessing's *Minna von Barnhelm;* Huss's *Sessenheim* and Buchheim's Geothe's *Dichtung und Wahrheit.*

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture and the Short Course in Domestic Science. See page 11. Students may prepare in these subjects for entrance to the four year courses by entering the Short Course in Agriculture or the Short Course in Domestic Science.



CHEESE MAKING ROOM. TOWNSHEND HALL.

SOIL PHYSICS LABORATORY. TOWNSHEND HALL.

ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC SCIENCE AND THE COURSE IN DAIRYING.

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

COLLEGE DUES.

Each student is required to pay an incidental fee of $15 a year. The laboratory fees vary from $5 to $15 a term. A fee of $10 is charged for the full course in the dairy laboratory in addition to the incidental fee of $5.

OTHER EXPENSES.

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms for students who desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this wav is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses :

	Low	Average	High
Incidental fees..............	$15 00	$15 00	$15 00
Laboratory fees.............	15 00	20 00	54 00
Books and stationery........	15 00	25 00	40 00
Room......................	4 50	37 00	75 00
Furniture	10 00	......	......
Board......................	70 00	110 00	150 00
Uniform	14 00	14 00	14 00
	$143 50	$221 00	$348 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued. There is no need of a student spending more than the "average" for items mentioned ; many spend less.

FREE SCHOLARSHIPS.

A free scholarship good for the two-year Courses or for the first year of the Short Courses and first year of the four-year Courses, is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture, then a free scholarship, good for two yeaps in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee and all laboratory fees except the gymnasium fee of one dollar per term, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the Course. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of this College.

LIVE STOCK JUDGING ROOM. TOWNSHEND HALL.

SELF-SUPPORT.

There is a large amount of work on the University farm and campus and in the garden, orchard and greenhouses, which can be done by students, and for which they are paid at current rates for such labor. By this means, together with what can be earned by steady labor during the summer vacations, a considerable number of students defray all their expenses.

Preference is given to students who are willing to devote a certain number of hours each day to the work assigned.

Work cannot be promised to all applicants, and is not guaranteed to any.

Applications for employment should be made to Frank Ruhlen, Assistant in Agriculture. Labor blanks will be furnished upon request.

TERMS AND VACATIONS.

The first term of each University year begins on Wednesday following the tenth day of September, and closes on the Wednesday preceding Christmas. The second term begins on the Wednesday following the first day of January, and closes on the Friday following the twenty-first day of March. The third term begins on the Monday following the close of the second term, and closes on Commencement day, which is the Wednesday following the eleventh day of June.

Entrance examinations for the next college year takes place on Monday and Tuesday, September 11 and 12, 1899. Students register and pay their fees on Wednesday, September 13, 1899, and lectures and class-work begin Thursday, September 14, 1899. The winter term course in Dairying begins Wednesday, January 3, 1900.

EQUIPMENT AND FACILITIES FOR INSTRUCTION.

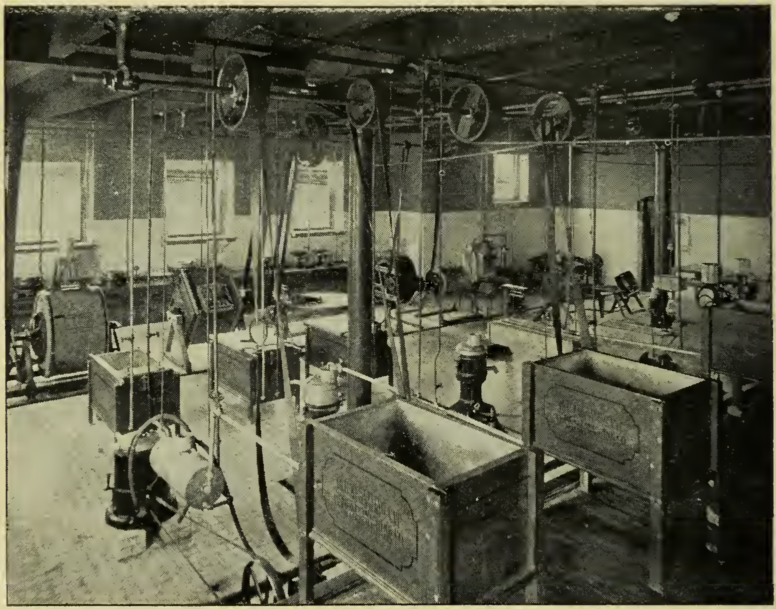
The buildings of the Ohio State University are on the south-east portion of the University grounds, which front east on North High Street, in the city of Columbus and extend from Eleventh Avenue, on the south, to Woodruff Avenue on the north. The campus and farm contain three hundred and forty-five acres. The farm, live stock, orchards, gardens, and forcing houses, form a part of the facilities for instruction in this College.

The University now has over eighty instructors and thirty-eight departments of study, offers thirty distinct courses, all but one of which require two or more years for its completion. Six of these courses are offered by the College of Agriculture and Domestic Science and are described in this bulletin.

There are thirteen buildings devoted to instruction, three of which have been erected and equipped during the past three years, at an expense of about $300,000. The lands, buildings and equipment are estimated to be worth over $2,000,000.

The buildings of special interest to this College are Townshend Hall, Horticultural Hall, Veterinary Hospital, Hayes Hall, Botanical Hall, Biological Hall, Orton Hall, (Geological building; contains also the Library,) and the Armory and Gymnasium.

The headquarters for the College of Agriculture and Domestic Science is in Townshend Hall, which has recently been completed and equipped at a cost of over $100,000.



BUTTER MAKING ROOM. TOWNSHEND HALL.

HORTICULTURAL HALL.

COURSES OF STUDY.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE.

The figures indicate the number of hours of recitation per week in the subject after which they stand. Two hours of laboratory practice or shop work are equivalent to one hour of recitation.

FIRST YEAR.

First Term—Agricultural Chemistry, First Principles (5) ; Elementary Physics, treated experimentally (5, ; Elementary Algebra (5) ; Mechanical Drawing (2) ; Cadet Service.

Second Term—Agricultural Chemistry, organic 5) ; Elementary Physics, treated experimentally (5) ; Plane Geometry (5) ; Practice in Carpentry, (3) ; Cadet Service.

Third Term—Agricultural Chemistry, applications (5) ; Elementary Botany (5); Physical Geography (5) ; General Physiology (3) ; Cadet Service.

SECOND YEAR.

No less than fifteen hours per week through the year ; chosen from any of the following courses upon which the student is to prepare to enter.

First Year—Breeds of Live Stock (4) ; Farm Equipment (4) ; Physiological Botany (5) ; Elements of Horticulture, Soils, Implements, Weeds, etc., (4) ; Veterinary Medicine, General Pathology (5) ; Pomology and Viticulture (4) ; Cadet Service.

Second Term—Stock Breeding (4) ; Study of Soils (4) ; Butter and Cheese Making (4) ; Winter Gardening, Greenhouse Construction, etc., (4); Veterinary Medicine, Special Pathology (5) ; Vegetable Gardening and Seed Sowing (4) ; Physiology, Bacteria, in relation to Butter and Cheese (2) ; Practice in Forging (3); Cadet Service.

Third Term—Stock Feeding (4) ; Farm Crops (4) ; Economic Entomology (5) ; Propogation of Plants, Germinating, Budding, Grafting, Cultivating, etc., (4) ; Veterinary Medicine, Special Pathology (5) ; Small Fruit Culture, including the Theory and Practice of Spraying Plants (4) ; Cadet Service.

OUTLINE OF FOUR YEAR COURSE IN AGRICULTURE.

FIRST YEAR.

FIRST TERM—Agricultural Chemistry (5) ; Physiological Botany (5) ; Rhetoric and Public Speaking (2½) ; Systematic Zoology (3) ; Mechanical Drawing (2).

SECOND TERM—Agricultural Chemistry (5) ; Economic Botany (5) ; Rhetoric and Public Speaking (2½) ; Zoology (3) ;Practice in Carpentry (3).

THIRD TERM—Agricultural Chemistry (5) ; Vegetable Pathology (5) ; Rhetoric and Public Speaking (2½) ; Entomology (3).

Cadet Service is required of the young men, and Physical Training of the young women throughout the year, unless excused by the President.

SECOND YEAR.

FIRST TERM—Breeds of Live Stock (4) ; Agricultural Chemistry, Laboratory (5) ; Elements of Horticulture (4) ; Physiology, Anatomy (3) ; Economic Entomology (2).

SECOND TERM—Stock Breeding (4) ; Agricultural Chemistry, Laboratory (5) ; Practice in Forging (3) ; Physiology (3) ; Economic Entomology (2).

THIRD TERM—Stock Feeding (4) ; Agricultural Chemistry, Laboratory (5) ; Elements of Horticulture (4) ; Physiology (3) ; Economic Entomology (2).

Cadet service is required of young men and physical training of the young women throughout the year, unless excused by the President.

THIRD YEAR.

FIRST TERM—Farm Equipment (4) ; French or German (4) ; Geology (5) ; Veterinary Medicine, Anatomy (5).

SECOND TERM—Study of Soils (4) ; French or German (4) ; Geology (5) ; Veterinary Medicine, General Pathology (5).

THIRD TERM—Farm Crops (4) ; French or German (4) ; Drawing (3) ; Veterinary Medicine, Special Pathology (5) ; Meteorology (2).

FOURTH YEAR. (REQUIRED.)

FIRST TERM—Animal Mechanics (4) ; Constitutional and Political History of the United States (4).

SECOND TERM—Dairy Husbandry, Butter and Cheese Making (4) ; History and Economics (4).

THIRD TERM—Rural Economics (4) ; Political Economy (4).

Elective—Ten hours a week through the year.

OUTLINE OF COURSE IN HORTICULTURE AND FORESTRY.

FIRST YEAR.

Same as the first year of the Four Year Course in Agriculture.

SECOND YEAR.

FIRST TERM—Agricultural Chemistry, Laboratory (5) ; French or German (4) ; Elements of Horticulture (4) ; Physiology, Anatomy (3) ; Economic Entomology (2).

SECOND TERM—Agricultural Chemistry, Laboratory (5) ; French or German (4) ; Practice in Forging (3) ; Physiology (3) ; Economic Entomology (2).

THIRD TERM—Agricultural Chemistry, Laboratory (5) ; French or German (4) ; Elements of Horticulture (4) ; Physiology (3) ; Economic Entomology (2).

THIRD YEAR.

FIRST TERM—Farm Equipment (4) ; French or German (4) ; Geology (5) ; Pomology and Viticulture (4).

SECOND TERM—Study of Soils (4) ; French or German (4) ; Geology (5) ; Vegetable Gardening (4).

THIRD TERM—Farm Crops (4) ; French or German (4) ; Drawing (3) ; Economic Entomology (2) ; Small Fruit Culture (4) ; Meteorology (2).

FOURTH YEAR. (REQUIRED.)

FIRST TERM—Arboriculture. Uses and History of Trees and Shrubs (2) ; Amateur Floriculture (2) ; Political and Constitutional History (4).

SECOND TERM—Forestry (2) ; Commercial Floriculture (2) ; History and Economics (4).

THIRD TERM—Landscape Gardening (2) ; External Home Adornment (2) ; Political Economy (4).

Elective—Ten hours a week through the year.

OUTLINE OF THE COURSE IN DAIRYING.

Persons wishing to take Course in Dairying should send for special circular.

DAILY VETERINARY CLINIC. VETERINARY HOSPITAL.

DOMESTIC SCIENCE LABORATORY. HAYES HALL.

THE COURSES IN DOMESTIC SCIENCE.

Three years ago the Ohio State University recognized the demand for a broader education for young women, by introducing the Course in Domestic Science.

The course was planned not particularly for city, nor for country girls, but in the hope that it might appeal to the most womanly side of all women.

The desire was, and is, that by the practical and scientific study of home problems women may see more in household duties than a mere routine; and that by understanding the principles underlying economics, and by applying these laws in her particular realm, the wife may help to build not only a more ideal home, but a more ideal nation.

The course as here outlined aims to give first a broad foundation in the sciences, language and arts, and then to apply this knowledge to living, in the broadest sense of the term.

The study of Chemistry, Botany, Zoology and Physiology makes it possible to understand the functions of various organisms, and to appreciate the changes constantly taking place in plants and animals. The analysis of foods and experiments with their effects upon the system, develop laws of wise living and so insure better physiques, intellects and morals. Economics certainly need to be understood and practiced no where more than in the home. History, Language, Literature, Pedagogy and Art all aid in broadening our knowledge of life and the people about us, and must add greatly to the possibilities for general pleasure and improvement.

DINING ROOM. DEPARTMENT OF DOMESTIC ECONOMY. HAYES HALL.

The art of the past should appeal to us, not only because of its beauty, but because it is a nucleus about which we may build a more symmetrical future. Personal appearance, comfort and health are not of small consequence, but merit consideration on the part of everyone, and when science and art are equally balanced, the home will mean infinitely more than it does at present.

As outlined below, the lectures and laboratory work, dealing particularly with Domestic Science, require about one-fourth of the schedule time during the last three years of the course: the First year, and the remaining thirteen or fourteen hours required during each term of the Second, Third and Fourth years being devoted to other University work.

OUTLINE OF FOUR YEAR COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

First Term—Elem. Chemistry (5); Physiological Botany (5); Zoology (3); Rhetoric and Public Speaking (2½); Free Hand Drawing (2).

Second Term—Organic Chemistry (5); Economic Botany (5); Zoology (3); Rhetoric and Public Speaking (2½); Free Hand Drawing (2).

Third Term—Chemistry, Applications (5); Vegetable Pathology (5); Entomology (3); Rhetoric and Public Speaking (2½); Free Hand Drawing (2).

Cadet Service is required of the young men, and Physical Training of young women throughout the year, unless excused by the President.

SECOND YEAR.

First Term—Chemistry, Laboratory (5) ; Domestic Science, Lectures and Laboratory on Composition and Preparation of Foods (4) ; French or German (4) ; Physiology (3) ; Mechanical Drawing (2).

Second Term—Chemistry, Laboratory (5); Domestic Science, Lectures and Laboratory on Composition and Preparation of Foods (4); French or German (4); Physiology (3); Architectural Drawing (2).

Third Term—Histology and Histo. Chemistry (3); Domestic Science Lectures on Nursing and Invalid Cookery (4); French or German (4); Physiology (3); Drawing, House Planning (2); Household Economics (1).

Cadet Service is required of the young men and Physical Training of the young women throughout the year, unless excused by the President.

THIRD YEAR. (REQUIRED.)

First Term—Domestic Science, canning, preserving, chafing dish cookery, laundry work (4); History (4); French or German (4); Education (4).

Second Term—Domestic Science, study of fibers and fabrics, of line, form, color and their application to art of millinery and dress making (4); History (4); French or German (4); English Literature (4).

Third Term—Domestic Science, second term continued (4); Economics, (4); French or German (4); English Literature (4).

Elective—Two hours a week through the year.

FOURTH YEAR. (REQUIRED.)

First Term—Domestic Science (4); General Floriculture (2).

Second Term—Domestic Science (4); Commercial Floriculture (2); Bacteriology (2).

Third Term—Domestic Science (4); Home Floriculture (2).

Elective—Ten hours a week through the year.

OUTLINE OF SHORT COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

Same as the first year of the Short Course in Agriculture.

SECOND YEAR.

Required—The two courses in Domestic Science, each 4 hours throughout the year, as described in second and third years of the Four Year Course in Domestic Science.

Elective—Not less than seven hours throughout the year chosen from the following courses:—Botany (5); Drawing (2); English Literature (2); Floriculture (2); Rhetoric and Public Speaking (2½); Zoology (3).

The University issues a general catalogue of 200 pages, which will be sent on application, containing detailed description of the courses of study and much other information. For any additional information concerning the work of this College, address the Dean of the College of Agriculture and Domestic Science, Ohio State University, Columbus. For general information concerning the University, address, Executive Office, Ohio State University, Columbus.

The University Bulletins are issued monthly, at least six months in each year.
Entered at the Postoffice at Columbus, Ohio, as second-class matter.

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University Bulletin

Series 4 No. 21.

1900-1901.

Ohio State University

The College of Agriculture and Domestic Science.

COLUMBUS

PUBLISHED BY THE UNIVERSITY. APRIL, 1900.

ANNOUNCEMENT

BY THE

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

IN THE

OHIO STATE UNIVERSITY

COLUMBUS, OHIO,

FOR

1900 - 1901.

"One of the wisest things this government ever did was to make ample provision for the great agricultural institutions in this land. We now have more than half a hundred of them to testify to the worth and sagacity of the Congress of these United States."—*President McKinley.*

COLUMBUS.
Published by the University.
APRIL, 1900.

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DAYS AND DATES.

1900.

Entrance Examinations (8 A. M.)	Monday,	September 17.
Registration	Tuesday,	September 18.
Lectures and Class-work begin	Wednesday,	September 19.
Meeting of Trustees	Wednesday,	September 26.
Thanksgiving Recess	Thursday, Friday,	November 29. November 30.
First Terms ends	Wednesday,	December 19.

1901.

Second Term begins	Wednesday,	January 2.
University Day	Friday,	February 22.
Second Term ends	Friday,	March 29.
Third Term begins	Wednesday,	April 3.
Meeting of Trustees	Wednesday,	April 3.
High School Day	Friday,	May 17.
Field Day—Athletic Association	Saturday,	May 18.
Senior Vacation begins	Saturday,	May 25.
Competitive Drill, Cadet Battalion	Saturday,	May 25.
Memorial Day	Wednesday,	May 30.
Final Examinations	Monday to Friday,	June 10. June 14.
Baccalaureate Sermon	Sunday,	June 16.
Entrance Examinations (8 A. M.)	Monday, Tuesday,	June 17. June 18.
Class Day	Monday,	June 17.
Meeting of Trustees	Tuesday,	June 18.
Alumni Day	Tuesday,	June 18.
COMMENCEMENT	Wednesday,	June 19.

Summer Vacation.

Entrance Examinations (8 A. M.)	Monday,	September 16.
Registration	Tuesday,	September 17.
Lectures and Class-work begin	Wednesday,	September 18.
Annual Address by the President (11 A. M.)	Friday,	September 20.
Meeting of Trustees	Wednesday,	September 25.

BOARD OF TRUSTEES.

1899—1900

		Term Expires.
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JOHN T. MACK	Sandusky	” 1901.
LUCIUS B. WING	Newark	” 1902.
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J. McLAIN SMITH	Dayton	” 1904.
PAUL JONES	Columbus	” 1905.
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FACULTY OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

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Associate Professor of Inorganic Geology.

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Associate Professor of Dairy Husbandry.

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Instructor in Cheese Making.

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Assistant in Drawing.

FRANCIS LEROY LANDACRE, B. A..................1332 Highland St.
Assistant in Zoology.

ALBERT EARL VINSON...................... .....134 West 9th Ave.
Assistant in Agricultural Chemistry.

FRANK RUHLEN, B. Sc., (Agr.).....................North Dormitory.
Assistant in Agriculture.

ELISHA SMITH,.......... ....233 West Eleventh Ave.
Assistant in Cheese Making.

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Assistant in American History.

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Assistant in Industrial Arts, and Foreman of Carpenter and Pattern Shops.

CHARLES P. CROWE,..............................971 Highland St.
Assistant in the Industrial Department and Forgemaster.

HOMER C. PRICE, M. Sc..............................1494 Neil Ave.
Assistant in Horticulture and Forestry.

FRANCIS M. HAMILTON, B. A....................1355 North High St.
Assistant in Philosphy and Pedagogy.

DELBERT ALONZO CROWNER, B. Sc., (Agr.)........North Dormitory.
Assistant in Butter Making.

MELVIN DRESBACH, M. Sc.......................236 West 8th Ave.
Fellow in Anatomy and Physiology.

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Fellow ann Theme Assistant in Rhetoric.

F. K. LUKE, M. S..Botanical Hall.
Florist.

S. W. COLLETT, M. S..........................48 West Woodruff Ave.
Fellow and Assistant in Botany.

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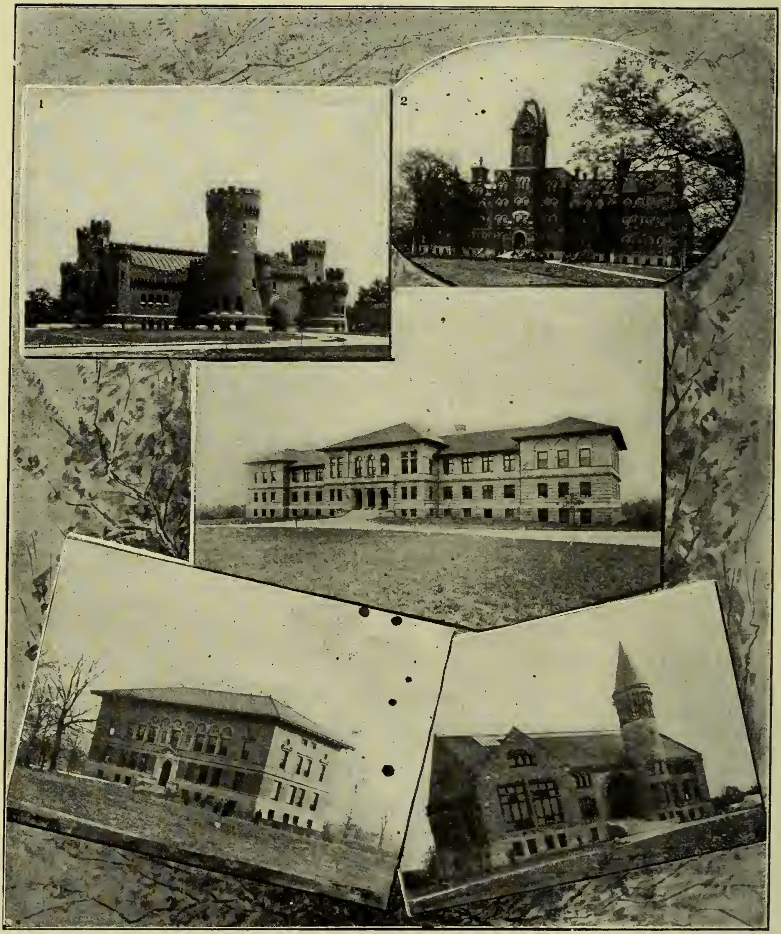
Director of the Gymnasium, and Instructor in Physical Education.

MRS. JAMES A. CANFIELD,......................1457 Worthington St.
Associate Director of the Gymnasium.

WHEATFIELD ON OHIO STATE UNIVERSITY FARM.



ARMORY AND GYMNASIUM.
TOWNSHEND HALL.
UNIVERSITY HALL.
BIOLOGICAL HALL.
ORTON HALL.

THE UNIVERSITY.

IT should be noted that the Ohio State University is divided into six colleges, as follows :

The College of Agriculture and Domestic Science.
The College of Arts, Philosophy and Science.
The College of Engineering.
The College of Law.
The College of Pharmacy.
The College of Veterinary Medicine.

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Science ; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts, Bachelorof Philosophy, and Bachelor of Science ; and in the Courses Preparatory to Law and to Journalism, and to Medicine.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts, Bachelor of Science in Chemistry or in Metallurgy ; in the Course in Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

HISTORY.

The land grant made by the United States under an act approved by President Lincoln, July 2d., 1862, provided that there should be granted to each state an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefits of the act of the endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed which provided for the establishment of the Ohio Agricultural and Mechanical College but the provisions were not carried into effect and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the College and the election of a Faculty of instruction and the institution was opened for the reception of students on the seventeenth day of September 1873.

In 1878, the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the Institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, verterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY.

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy river, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

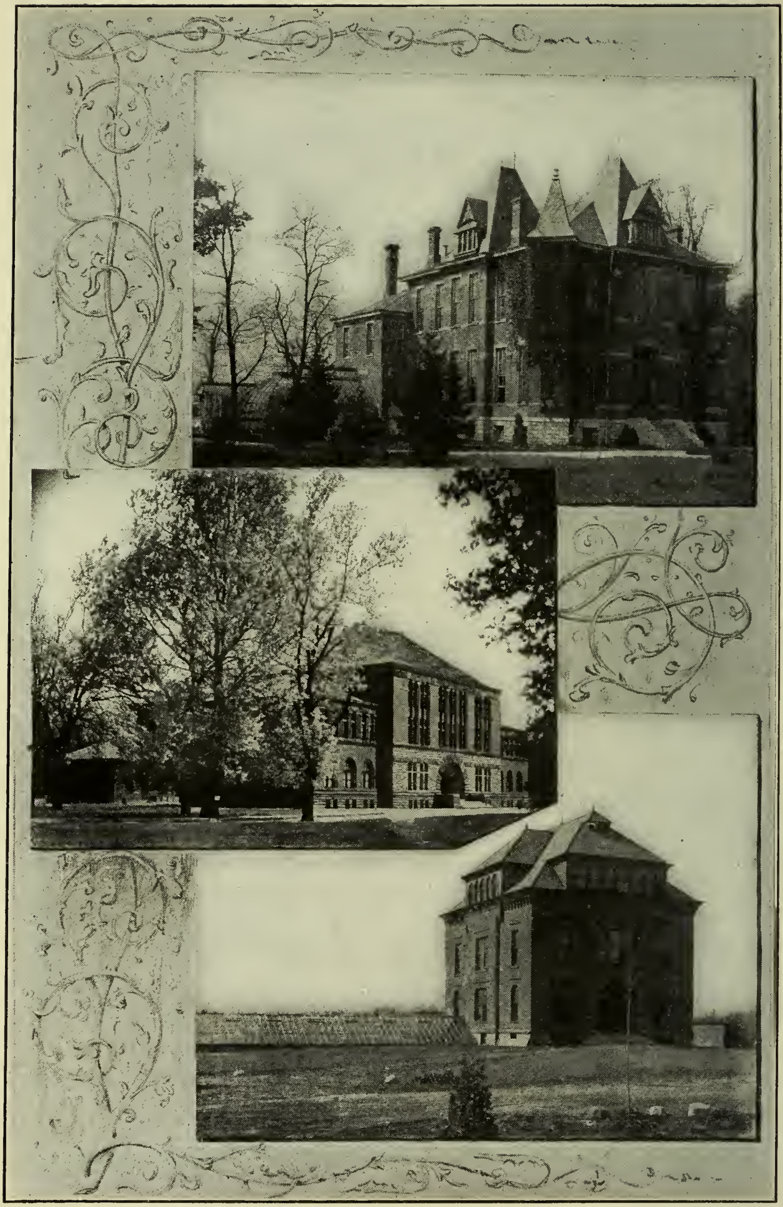
The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil Avenue electric cars. Those wishing to go to the principle buildings of the University, to the residences on the grounds, or the Athletic field, should take a High Street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall and the Dormitories, will find the Neil Avenue cars more convenient.

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars.

The buildings of special interest to the College of Agriculture and Domestic Science are Townshend Hall, Horticultural Hall, Veterinary Hospital, Hayes Hall, Botanical Hall, Biological Hall, Orton Hall (Geological building; contains also the Library), and the Armory and Gymnasium.

The University now has over one hundred instructors and thirty-eight departments of study, offers thirty distinct courses, all but one of which require two or more years for completion. Six of these courses are offered by the College of Agriculture and Domestic Science and are described in this announcement,



BOTANICAL HALL
HAYES HALL
HORTICULTURAL HALL

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

The College of Agriculture and Domestic Science offers six distinct courses of study :

1. *A four years' Course in Agriculture.*
2. *A four years' Course in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science.*
6. *A two years' Course in Domestic Science.*

THE COURSE IN AGRICULTURE.

About one-half of the students who have graduated from this course have engaged in farming while most of the others have become professors, instructors or experimenters in the agricultural colleges and experiment stations of the country. Still larger numbers, who have pursued the the course for two or three years, have become successful farmers or farm superintendents. The course in Agriculture serves as a preparation of either class equally well.

The officers of the College recognize the danger of a too special or technical training of under-graduate students in a subject having such a wide range and one requiring for its successful prosecution such breadth of view. A careful examination of the course as outlined on page will show that about one-third of the time of the student during the four years is or may be devoted to Language, (English and foreign), History and Economics ; about one-third to pure science, and one-third to technical or professional training. Electives in the senior year allow for some variation in this regard.

The Course in Agriculture is one of a number of regular four year collegiate courses in the University. This one is designed not only to make specially trained agriculturists, but also educated men. The course presupposes that a young man has had a High School training or its equivalent and that he has had the training in farm matters that necessarily comes to a young man who has lived on a farm. It supplements this training but does not displace it. The technical training in this course consists in those matters which years of experience in teaching have shown are either lacking or most necessary. Young men from the cities are entering this course, as they should do if they expect to engage in agricultural pursuits, but it should be understood that the Course in Agriculture does not, except incidentally, supply that training in farm matters which comes from actual life upon the farm. Such a course could readily be planned but it would waste the valuable time of nine-tenths of the students who now enter the course. A fuller understanding of the course may be obtained by comparing the outline below with the departmental courses of study beginning on page 25. It will be seen that the general education and training is broad, and liberal and that the technical or professional training is thorough and exact.

No man or woman is thoroughly well educated until he or she has been taught both to do and to think. Both faculties are necessary and each assists the other. Experience and reason, however, teach that the students who enter the Course in Agriculture have been better trained in doing than in thinking. With them manual training is not as necessary as an educational factor as with students from the cities. On the other hand, special emphasis is laid on training the faculties of observation, reason and judgement. It should be understood, however, that the laboratory methods and facilities are most thorough and complete in all scientific and technical courses, giving a training which is impossible to obtain merely from books.

The Course in Agriculture leads to the degree of Bachelor of Science in Agriculture.

OUTLINE OF THE COURSE IN AGRICULTURE.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR.

REQUIRED.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Drawing (10)	2.				
Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
		Shopwork (1)	3.		
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Vertebrate.	3.
Cadet Service (men).*		Cadet Service (men).		Cadet service (men).	
Hygiene and Physical Training)women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR.

REQUIRED

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
Horticulture (1) Elements.	4.	Shopwork (2)	3.	Horticulture (3) Plant Propagation.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	4.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men)		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR.

REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
				Drawing (16)	3.
†French (1) Elementary, or †German (1) Elementary.	4.	†French (1) Elementary, or †German (1) Elementary.	4.	†French (1) Elementary. or †German (1) Elementary.	4.
Geology (2) General.	5.	Geology (5) General.	3.	Astronomy (3) Meteorology.	2.
Veterin'y Medicine (28) Anatomy.	5.	Veterin'y Medicine (29) General Pathology.	5.	Veterin'y Medicine (30) Special Pathology.	5.

FOURTH YEAR.

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (14) Animal Mechanics.	4.	Agriculture (15) Dairy.	4.	Argiculture (16) Rural Economics.	4.
History (5) U. S. Political.	4.	History (5) U. S. Political.	4-2.	Economics (2) Political Economy.	4.
		Economics (2) Political Economy.	4-2.		

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THE COURSE IN HORTICULTURE AND FORESTRY.

Horticulture and Forestry are rapidly developing arts. Their successful practice, like that of other arts, is largely dependent upon science.

Chemistry, Physics, Botany, Geology, Entomology and other sciences, are the natural basis of a sound, practical knowledge of those things with which the fruit culturist, gardener, nurseryman and forester have to deal.

While science may teach much regarding the origin and growth of plants, it does not teach how to select varieties, how to propagate, transplant, cultivate, fertilize, prune, or what is even more essential, how to harvest and market the product to the best advantage.

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* A rule of the Board of Trustees requires each male student (except student in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

All the science in the world, while it may signally help, cannot of itself make a good fruit-culturist, florist or landscape gardener.

Science and Art, theory and practice should go hand in hand.

This course was established to meet a growing demand for special training. It seeks to ground the student in those sciences that are fundamental, and to give a thorough drill in all methods of plant propagation and the more technical branches of horticulture and forestry.

The forcing of winter vegetables and the cultivation of the finer product of the garden and orchard are rapidly extending.

Commercial floriculture is developing with marked rapidity, and forestry is engaging the attention of the thoughful as never before. For earnest, enterprising young men and women, horticulture and forestry in their various branches, offer as large a reward for intelligent, well directed effort as any other pursuit or profession.

The Course in Horticultnre and Forestry leads to the degree of Bachelor of Science in Horticulture and Forestry.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY.

FIRST YEAR.

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological, Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (10)	2.				
Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
		Shopwork (1)	3.		
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Vertebrate.	3.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR.

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
*French (1) Elementary or *German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary or German (1) Elementary.	4.
Horticulture (1) Elements.	4.	Shopwork (2)	3.	Horticulture (3) Plant Propagation.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology,	3.
Zoology (4) Economic Entomology	2.	Zoology (4) Economic Entomology	2.	Zoology (4) Economic Entomology	2.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women.)	

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*Where credit is received for Elementary French or German, French (2 4 or German (4) 4 is required.

THIRD YEAR.

REQUIRED.

Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
				Astronomy (3)	2.
				Meteorology.	
				Drawing (16)	3.
French (2) German (4)	4.	French (2) or German (4)	4.	French (2) or German (4)	4
Geology (2)	5.	Geology (5)	3.	Zoology (4)	3.
General.		General.		Economic Entomology	
Horticulture (4)	4.	Horticulture (5)	4.	Horticulture (6)	4.
Varieties of Fruit.		Principles of Fruit Culture		Small Fruits and Spraying.	

FOURTH YEAR.

REQUIRED

Horticulture (7)	2.	Horticulture (8)	2.	Horticulture (9)	2.
Elementary Floriculture.		CommercialFloriculture.		Home Floriculture.	
Horticulture (10)	2.	Horticulture (11)	2.	Horticulture (12)	2.
Arboriculture.		Forestry and Sylviculture.		Landscape Gardening.	
History (5)	4.	History (5)	4-2.	Economics (2)	4.
U. S. Political.		Economics (2)	4-2.	U. S. Political	
		U. S. Political			
		Political Economy.			

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter ; except in the College of Law.

THE SHORT COURSE IN AGRICULTURE.

The Short Course in Agriculture is a two years course, the first year of which is made up largely of studies preparatory either to the second year of the short course or the first year of the four years course in Agriculture or in Horticulture and Forestry. While believing that the four years course is none to a long for the students who expect to engage in agricultural pursuits yet it is recognized that there are many students whose circumstances make it impossible to take a four years collegiate course in Agriculture and yet who are anxious and would be greatly benefited to take a less extended training for their life work.

This course is especially desirable for students of rather mature age. The Short Course in Agricutlture also enables students who lack the training to enter the four year course in Agriculture or in Horticulture and Forestry to make up in large part such deficiency. A considerable number of students in these advanced courses have formerly been students of the short course. This course contains as thorough instruction in Agriculture, Animal Industry, Dairying, Horticulture (including Fruit Culture, Vegetable Gardening and Floriculture) and Forestry, Veterinary Medicine, Economic Entomology and the Sciences underlying these subjects as the time will admit. The second year contains optional work so that it is possible for students to specialize in Horticulture, Agriculture or Animal Industry and Dairying.

No degree is given on the completion of the Short Course in Agriculture but a diploma is issued stating fully the work done.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE.

FIRST YEAR.

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Mathematics (1) Algrebra.	5.	Mathematics (3) Geometry.	5.	Botany (1) Elementary.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Physiography.	5.
Drawing (10) Mechanical.	2.	Shopwork (1)	3.	Physiology (2) General.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR.

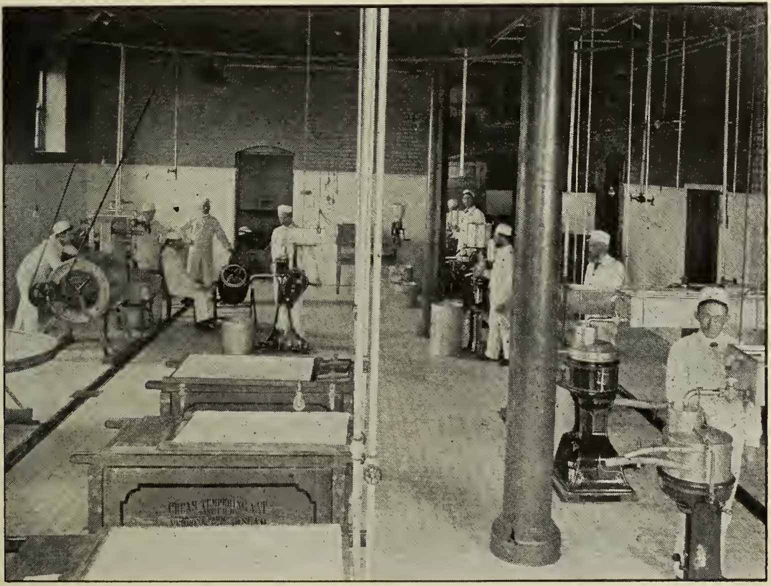
Not less than fifteen hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
Agriculture (17) Milk Sanitation.	3.				
Botany (6) Physiological.	5.	Agriculture (15) Dairy.	4.	Zoology (7) Entomology.	3.
Horticulture (1) Elements.	4.	Horticulture (2) Greenhouse Construction.	4.	Horticulture (3) Plant Propagation.	4.
		Shopwork (2)	3.	Veterinary Medicine (30) Special Pathology.	5.
Veterinary Medicine (28) Anatomy.	5.	Veterinary Medicine (29) General Pathology.	5.	Horticulture (6) Small Fruits and Spraying	4.
Horticulture (4) Varieties of Fruit.	4.	Horticulture (5) Principles of Fruit Culture.	4.		
		Physiology (6)	2.		
Cadet Service.		Cadet Service.		Cadet Service.	

THE COURSE IN DAIRYING.

The Course in Dairying is established to meet the wants of those who have neither the time nor means for the above extended courses. It is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and contents of butter fat ; the use and care of centrifugal separators and other dairy devices ; the making of butter and cheese by the most improved methods ; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock ; the diseases of cow ; the chemistry of milk ; the effect of bacteria and other agents upon milk and its products ; the care of boilers and engines and similar subjects.

The Course in Dairying begins the first Tuesday in January ; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."



BUTTER MAKING ROOM, TOWNSHEND HALL.

OUTLINE OF THE COURSE IN DAIRYING.

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and managment of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Two hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.

Veterinary Medicine (17). Diseases of the Cow. Three hours each week.

Mechanical Engineering (26). Steam Machinery. One hour each week.

THE COURSES IN DOMESTIC SCIENCE.

Three years ago, the Ohio State University recognized the demand for a broader education for young women, by introducing a Course in Domestic Science.

The course was planned for no one class of women ; not particularly for city or country girls, but in the hope that it might appeal to the most womanly side of all women. The desire was, and is, that by the practical and scientific study of home problems, women shall come to see more in household duties than a mere routine ; to recognize that Economics has its foundation in domestic relations ; that Art and Ethics have no higher use than to purify and beautify every day subjects ; and that the history and literature of the past have direct bearing upon the present. In other words, the authorities believed that by practically applying the pure sciences and arts to domestic life, our women should be better able to build ideal homes and an ideal nation.

The studies pursued in the Department of Domestic Economy, while closely affiliated, naturally group themselves first about the sciences and later about the arts, and for convenience, such work as that with Foods, Sanitation and Hygiene, which directly makes demands along scientific lines, is classed as Domestic Science, and the work made possible by the wise acceptance of scientific laws, and by a general knowledge of the culture of past ages; that is, the work of developing beautiful and harmonious surroundings, is classed as Domestic Art.

The College offers two courses in this work: A two years course planned for those who can give but a limited time to University training, and a four years course, requiring a more advanced standing for entrance and leading to the degree of Bachelor of Science in Domestic Science.

As outlined farther on the lectures and laboratory work dealing particularly with Domestic Economy, require about one-fourth of the schedule time during the last three years of the long course ; the first year and the remaining thirteen or fourteen hours required during each term of the Sophomore, Junior and Senior years, are devoted to allied University studies.

The equipment of the department has been carefully selected and is adequate for thorough and conscientious work. Every effort is being made to develop the course along broad and safe lines, and the large number of pupils who have chosen so new a course, and the unflagging interest evinced by them, betokens the success of the undertaking.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany, Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR.

REQUIRED

Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.	Physiology (3) Chemical Physiology.	3.
				Physiology (10)	2.
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3	4.
Drawing (10) Mechanical.	2.	Drawing (15) Architectural.	2.	Drawing (15) House Designing.	2.
†French (1) Elementary, or †German (1) Elementary.	4.	French (1) Elementary, or German (1) Elementary.	4.	French (1) Elementary, or German (1) Elementary.	4.
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

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*Specific laboratory work will be provided for students in this course, where necessary.

†Where credit is received for elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

THIRD YEAR.

REQUIRED

Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
French (2) or German (4)	4.	French (2) or German (4)	4.	French (2) or German (4)	4.
History (5) U. S. Political.	4.	History (5) U. S. Political.	4-2.	Economics (2) Political Economy.	4.
Education (1)	4.	Economics (2) Political Economy.	4-2.	English Literature (3)	4.
		Education (1)	4-2.		
		English Literature(2)	4-2.		

Elective: Two hours a week, through the year.

FOURTH YEAR.

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Domestic Eonomy (7)	4.	Domestic Economy (8)	4.	Domestic Economy (9)	4.
Horticulture (8) Elements of Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.

ELECTIVE

Ten hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; execpt in the College of Law.

SHORT COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Botany (1) Elementary.	5.
French (1) or German (1)	4.	French (1) or German (1)	4.	French (1) or German (1)	4.
Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR.

REQUIRED

Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3)	4.
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

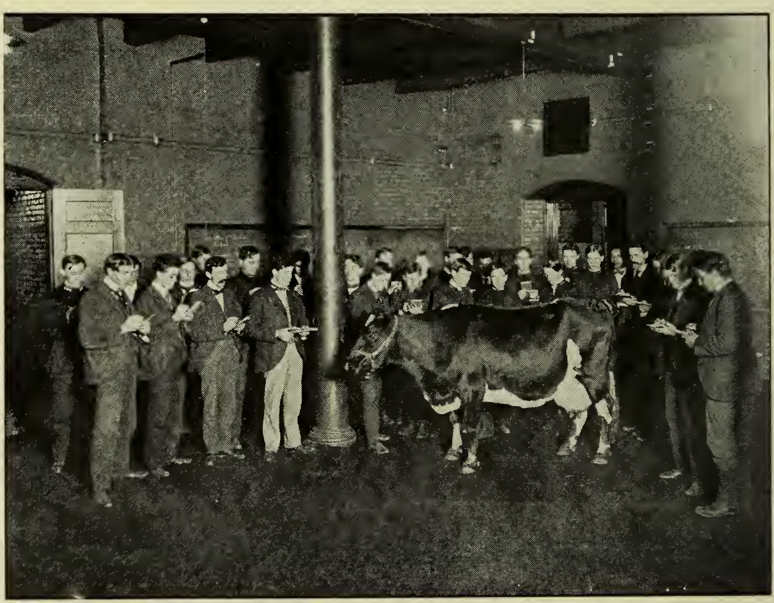
ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to the conditions named under "Departments of Instruction:"

Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany, Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Education (1)	4.	Education (1)	4-2.	English Literature (2)	4.
		English Literature (2)	4-2.		
Horticulture (8) General Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Vertebrate.	3.

VIEW NEAR THE SPRING.

THESIS WORK BY STUDENT ON CAUSES OF PLANT GROWTH.



LIVE STOCK JUDGING ROOM, TOWNSHEND HALL.

THE DEPARTMENTS OFFERING INSTRUCTION IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

To determine relation and sequence of studies consult outlines of College courses beginning on page 14.

AGRICULTURE

(Townshend Hall.)

ZOOTECHNY AND RURAL ECONOMICS

PROFESSOR HUNT, MR. RUHLEN.

8. **Breeds of Live Stock.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.

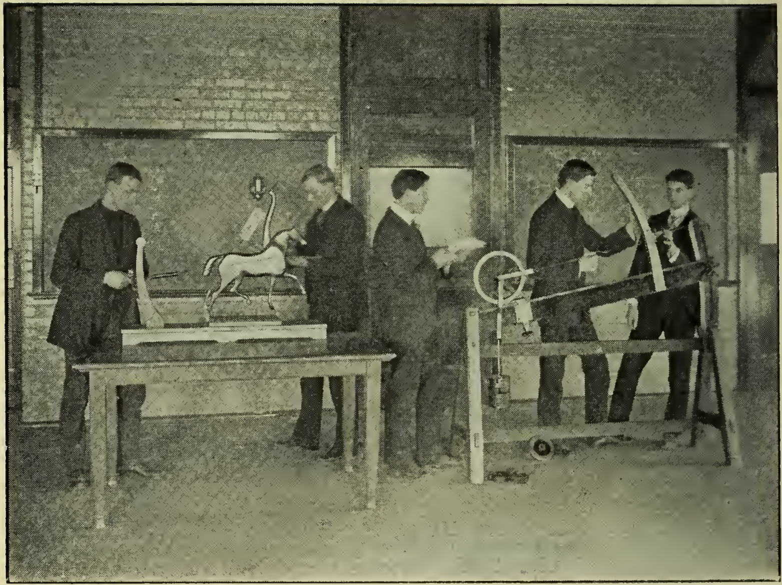
9. **Principles of Breeding.** Lectures and recitations three times a week upon the laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.

10. **Stock Feeding and Hygiene.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibilities, nutrive ratios and feeding standards. Third term.

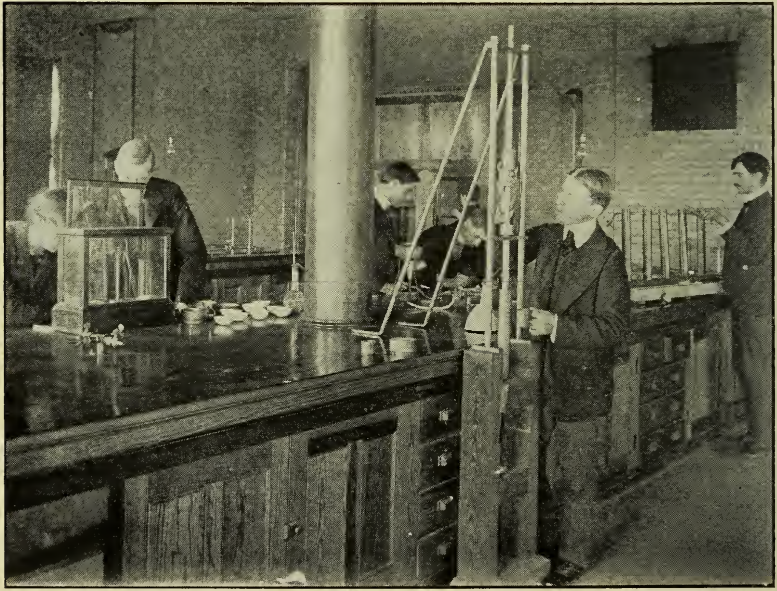
14. **Animal Mechanics and Exterior.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.

16. **History of Agriculture and Rural Economics.** Lectures and recitation upon the history of agriculture ; present agricultural methods in various countries ; cost and relative profits of various farm operations and systems. Four times a week. Third term.

5. **Dairy Farming.** Lectures twice a week upon breeds, and upon feeding, breeding and selecting dairy stock ; equipment and managment of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.



LABORATORY WORK IN FARM EQUIPMENT.



SOIL PHYSICS LABORATORY, TOWNSHEND HALL.

AGRONOMY AND FARM EQUIPMENT.

ASSOCIATE PROFESSOR GIBBS.

11. **Farm Equipment.** Lectures and recitations three times a week upon selecting, planning, and equipping farms ; planning and erecting farm buildings and fences ; building roads ; farm vehicles and machinery ; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings ; leveling and laying drains ; dynamometer tests of wagons and farm implements. First term.

12. **Soils.** Lectures and recitations three times a week upon the orgin,formation, kinds, and physical properties of soils and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory, testing physical properties of several soils; determining the relation of soils to heat, moisture, air and fertilizers, and making mechanical analyses. Second term.

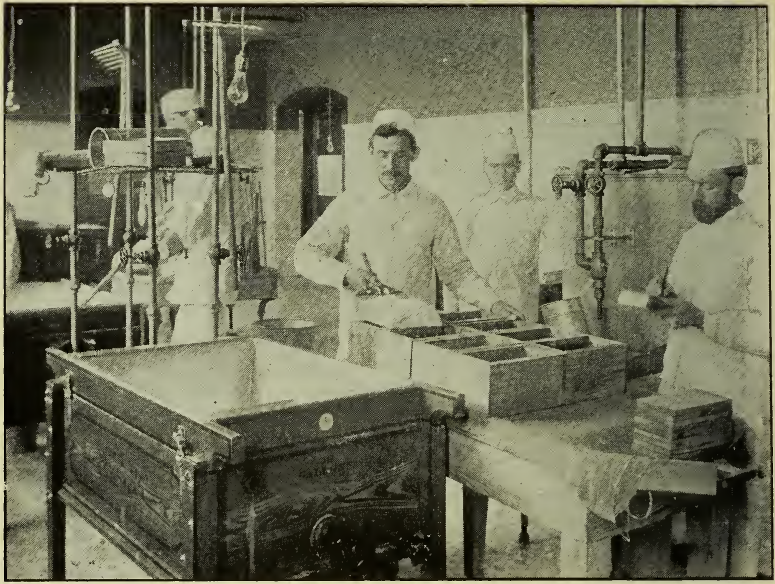
13. **Farm Crops.** Lectures and recitations three times a week upon the history, production, marketing, cultivation and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers and other forage crops. Third term.

DAIRYING.

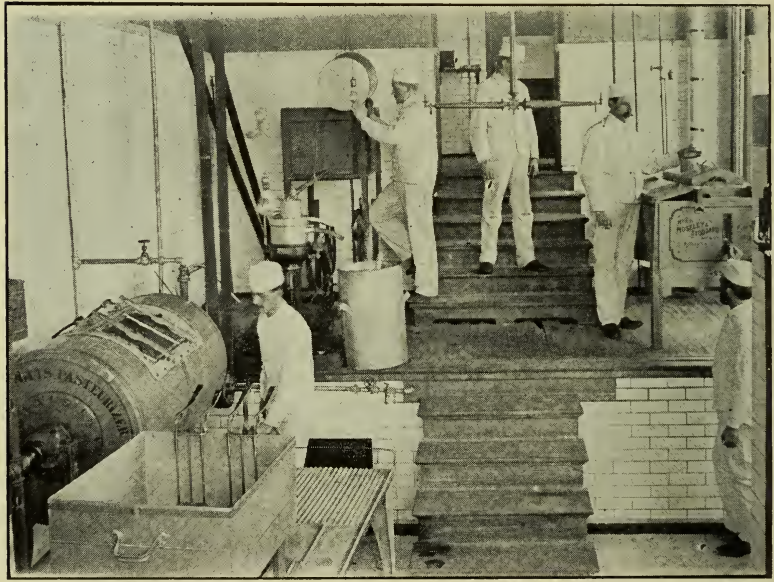
ASSOCIATE PROFESSOR DECKER. MR. HERRICK, MR. SMITH,
MR. CROWNER.

6. **Butter Making and Cheese Making.** Practice four half days each week in testing milk as to purity, contents of butter fat; in the use and care of centrifugal separators of different makes and other creamery and dairy devices and in the making of butter and cheese by the most improved methods. In a word, all the essential operations of the creamery, factory, or home dairy, are repeatedly performed under the guidance and direction of the instructors until some degree of proficiency is attained. Neither is the student allowed to do this work by the rule of thumb. He is required to follow the milk from the time it enters the laboratory until the finished product leaves it, and to determine the points in the process where losses occur and the reason therefore. Second term.

7. **Butter Making and Cheese Making.** Lectures and recitations on methods of creaming ; factors which control the thoroughness of separation, either by gravity or centrifugal force ; explanations of the continuous separation of cream ; of ripening cream and testing for acidity ; on the philosophy and methods of churning ; the effect of temperature, acidity and richness of cream on time and completeness of churning ; on the salting, working, packing and marketing of butter ; on the fermentation of milk as affecting cheese making ; on the curd test for detecting gassy or bad flavored milk ; on the rennet test ; on the cutting, heating, milling, salting and pressing of the curd ; on the curing and shipping of cheese ; on the judging of butter and cheese and the pasteurization of milk. There are also lectures upon the construction, equipment and operation of creameries, cheese factories, dairies and milk depots. Each student is required to draw



STUDENTS MAKING BRICK CHEESE.



BOTTLING AND PASTEURIZING ROOM, TOWNSHEND HALL.

a plan of a dairy, a creamery or a cheese factory and prepare the estimate for the equipment of the same. Two hours each week. Second term.

15. **Butter and Cheese Making.** Lectures twice a week. Laboratory practice twice each week. This course is the same as courses 6 and 7, except that less laboratory practice is taken. Second term.

17. **Milk Sanitation.** Three times a week. First term. Lectures on and laboratory practice in what constitutes pure dairy products, such as milk, butter and cheese, together with the common methods of adulteration, such as skimming, watering, preserving with chemicals injurious to health, and the effect of sanitary conditions on the keeping qualities and healthfulness of the same ; pasteurization and other methods of preparing milk for sale.

AGRICULTURAL CHEMISTRY.

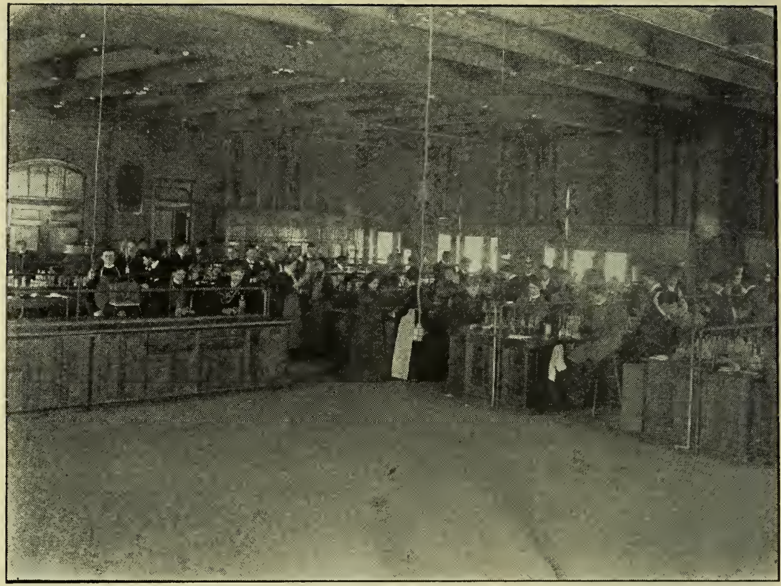
(Townshend Hall, Rooms 29, 35, 34 and 30.)
PROFESSOR WEBER, MR. VINSON.

1. **Principles of Chemistry and Chemical Nomenclature.** Lectures and text-book for three or four weeks, five times a week ; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.

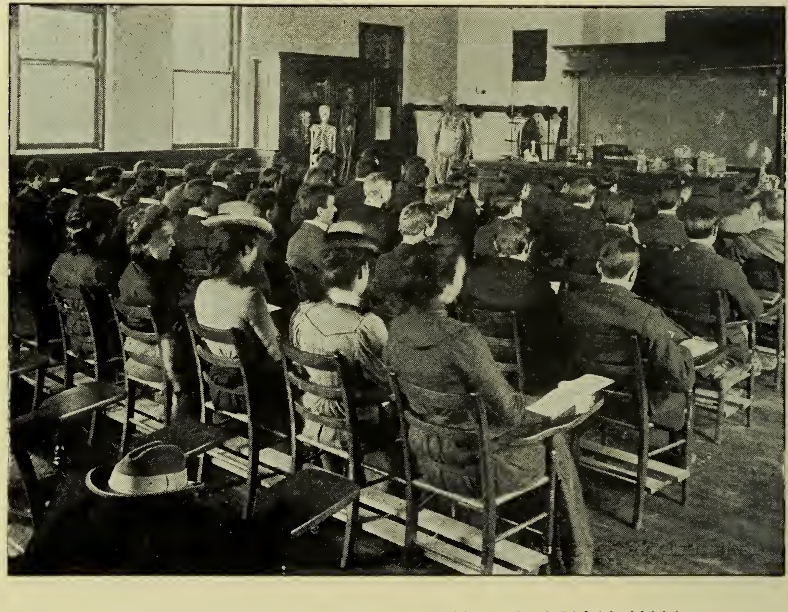
8. **Organic Chemistry.** Lectures twice a week ; laboratory practice three time a week. Second term. In connection with the lectures, Norton's Chemistry or any other good text book on elementary chemistry is used. The laboratory work consits of a complete, systematic course in qualitative analysis. As a guide Weber's Select Course in Qualitative Analysis is employed. This course is finished at the end of the second term.

9. **Application of Chemistry to Agriculture.** Lectures twice a week ; laboratory three times a week. Third term. In the third term, the lectures embrace the following topics : Ingredients of plants, organic and inorganic, essential and non-essential ; sources of plant food, air and soil ; nature of soil, mechanical portion, nutritive portion, assimilable and reserve plant food. At this point, the class is divided into two sections, the students of Agriculture continuing with soil exhaustion and amelioration ; barnyard manure, its sources, composition and preservation ; commercial fertilizers, their rational use and methods of determining the needs of soils ; feeding stuffs and feeding rations. The students of Domestic Science are given for the remainder of the term a course of lectures on food adulteration illustra ted with specimens obtained from the markets. The laboratory work of the third term begins with the quantitative analysis of simple salts as sodium sulphate and potassium chloride and continues with the analysis of limestones, soils, manures, feeding stuffs, and the short method of sanitary water analysis. The students of Domestic Science omit the anaylsis of soils and manures.

4. **Lectures and Laboratory.** Five times a week through the year. In the second term two hours a week are devoted to lectures on the industries related to agriculture, as the manufacture of sugar from cane, sorghum



AGRICULTURAL CHEMICAL LABORATORY, TOWNSHEND HALL.



PHYSIOLOGICAL LECTURE ROOM, BIOLOGICAL HALL.

and beets ; the manufacture of starch, glucose and dextrine ; the nature and manufacture of vinegar, as fruit, malt and distilled vinegar; the manufacture of alcohol, malt liquors and wines. In the laboratory, the work consists of the official methods of analyzing fertilizers, feeding stuffs, milk, butter and cheese ; the analysis of sugar, syrup and sugar producing plants, as beets; determination of cane sugar, milk sugar, reducing sugar and dextrine ; also the determination of cane sugar and milk sugar by means of the polariscope. The analysis of flour, fruits, vegetables, condiments, etc. The analysis of vinegar, as cider, malt and distilled vinegar ; the analysis of spiritous and fermented liquors. Students of other departments may also elect *three hours* through the year in this course.

6. **Laboratory.** Elective *five* or *three times* a week through the year. The work of this course consists of the complete sanitary analysis of water, for which a special room detached from the main laboratory has been fitted up ; the complete analysis of soils ; the various official methods of determining nitrogen, potash and phosphoric acid; the analysis of oils and fats; complete analysis of grain ; the analysis of tea and coffee ; the examination of foods, syrups, spices, condiments, flavoring extracts for adulteration ; also any work of previous courses, which for lack of time, may not have been completed.

ANATOMY AND PHYSIOLOGY.

(Biological Hall, Rooms 12 and 20)

Professor Beile, Assistant Professor Morrey, Mr. Dresbach.

1. **Human Anatomy and Physiology.** Lectures, recitation and laboratory work three times a week. First, second and third terms. This course must be preceded by, or accompanied with, a course in chemistry.

2. **General Physiology.** Lectures, recitations and demonstrations. Three times a week. Third term.

3. **Chemical Physiology.** Three times a week. Third term.

6. **Bacteriology.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to dairy and other agricultural industries. Twice a week. Second term.

10. **Bacteriology.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures of their special application to cooking and other domestic affairs. Twice a week. Third term.

ASTRONONY.

(Emerson McMillin Observatory).

Associate Professor H. C. Lord, Director of the Observatory.

Mr. J. Warren Smith, Special Lecturer on Meteorology.

3. **Meteorology.** Lectures on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments in use by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Twice a week. Third term

A CORNER IN THE BOTANICAL LABORATORY.

A VIEW IN THE BOTANICAL MUSEUM.

BOTANY.

(Botanical Hall)

Professor Kellerman, Assistant Professor Schaffner,
Florist Luke, Mr. Collett.

1. **Elementary Botany.** Lectures and recitations three times a week, laboratory work twice a week. Credit five hours. Fall term. Text-book Kellerman's Elementary Botany and Spring Flora. This is a general course introductory to those that follow. It comprises mostly Organography and Vegetable Physiology and a study of the native flora, but some instruction is also given in ecology and classification. For the practical or laboratory work, Kellerman's Practical Exercises is used as a guide. The students are required to do some work in the field in both observation and collecting.

6. **Physiological Botany.** Lectures and recitations three times a week and laboratory and field work twice a week. Credit five hours. Fall term. Text-book, Coulter's Plant Structures. This is intended to be a complete course showing the evolution of plants from the lowest to the highest. ecology and physiology are the more prominent subjects but some instruction is given on morphology and classification. The laboratory work includes a general course in histology with practice in experimental physiology. The student receives instruction and practice in handling the microscope and has the opportunity of learning much of the important modern methods in techinque.

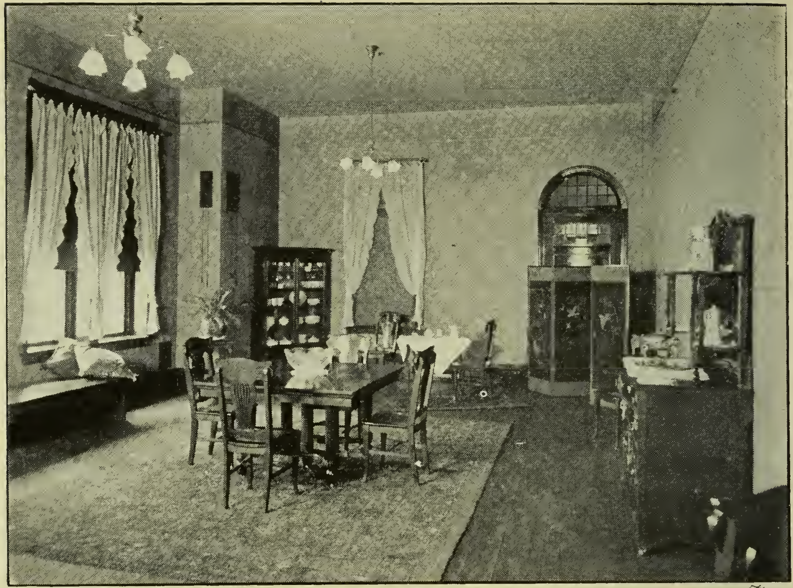
7. **Physiological and Economic Botany.** Lectures and recitations three times a week and laboratory twice a week. Credit five hours. Winter term. Text-book, Coulter's Plant Structures. This course is, in part, a continuation of Course 6, but the latter half of the term is devoted to a botanical study of economic plants and the vegetable products of commerce. The laboratory work includes the microscopic study of fibers, starches, resins, gums and many other important vegetable products.

8. **Vegetable Pathology.** Lectures and recitations three times a week. Laboratory and field work twice a week. Credit five hours. Spring term. Text-book, Massee's Plant Diseases. The diseases of plants due to inorganic causes are studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes up the latter part of the term some economic subject or group of parasites for special study.

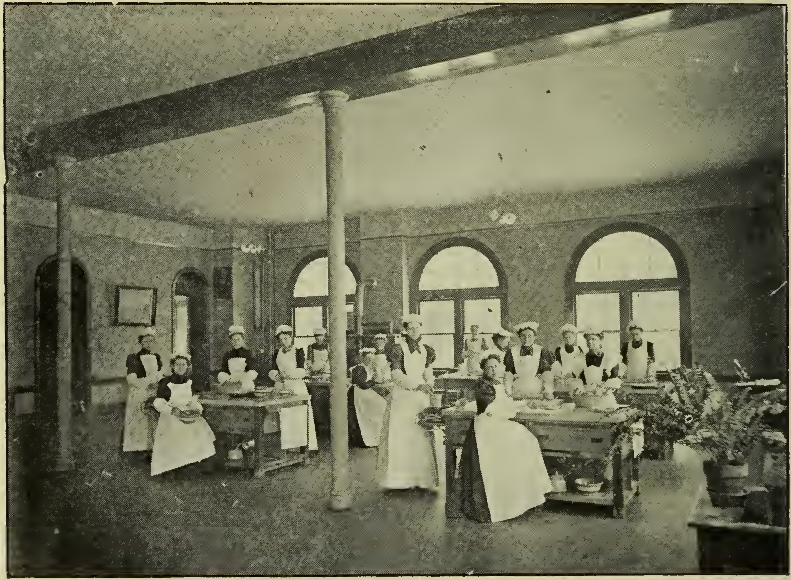
ELECTIVE COURSES.

9. **Dendrology.** Lectures and field work. Credit two hours. First term. Kellerman's Forest Trees of Ohio and various reference book are used. The native trees are studied and illustrative collections made.

10. **Dendrology.** Laboratory work and special investigations on the structure and diseases of timber. Credit two hours. Second term.



DINING ROOM. DEPARTMENT OF DOMESTIC ECONOMY, HAYES HALL



DOMESTIC SCIENCE LABORATORY, HAYES HALL.

11. **Laboratory Work.** Special investigations. First, second and terms. Credit two to five hours.

12. **Research Work in Morphology, Ecology and Physiology.** Graduate course. First, second and third terms. Credit five to ten hours.

13. **Monographic Work.** Graduate course. First, second and third terms. Credit five to ten hours.

DOMESTIC ECONOMY.

(Hayes Hall. Rooms 1, 3, 10).

ASSOCIATE PROFESSOR BOWMAN. ASSISTANT PROFESSOR SOUTHER.

DOMESTIC SCIENCE.

1. **Food Economics.** One lecture and three laboratory periods each week. Four hours credit. Lectures embracing, a study of the evolution of society as affected by food conditions ; Second, a study of food principles. Laboratory work includes experimental work with foods, and the preparation and serving of typical foods of certain classes. Offered in the first term of each year.

2. **Food Economics.** One lecture and three laboratory periods each week. Four hours credit. By lecture and research work, the relative nutritive and money values of foods are considered. Each student prepares a weekly dietary for the family ; the amount to be expended limited by the instructor. United States Agricultural Bulletin standards used. Laboratory work is a continuation of Course 1. Offered in second term of each year.

3. **Emergency Work and Home Nursing.** One lecture and three laboratory periods each week. Four hours credit. The lectures, demonstrations and practical work are designed to set forth the principles underlying good nursing, to take up the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home. Food suitable for invalids, infants and convalescents is prepared in the laboratory. Offered in the third term of each year.

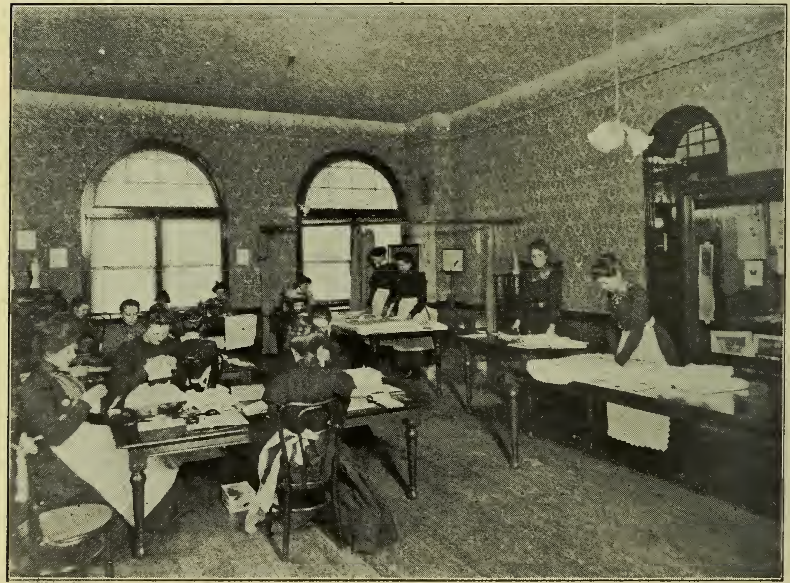
4. (*a*). **Preservation of Foods.** Four weeks.
(*b*). **Hygiene of Clothing.** Eight weeks.
One lecture and three laboratory periods each week. Four hours credit.

(*a*). Includes a brief study of the causes of decomposition, a history of the methods employed in the preservation of foods, and practical work in canning, preserving, etc.

(*b*). Includes a study of fibres and their proper treatment. The properties and cleansing effect of water and soap ; disinfecting clothing ; the chemical treatment of stains and demonstrated work in practical laundry methods. Offered in the first term.

10. **Household Economics.** Two hours lecture course. Elective. A consideration of the best location for a house ; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. Offered in the third term of each year.

A CORNER IN DOMESTIC SCIENCE LABORATORY, HAYES HALL.



DOMESTIC ART LABORATORY, HAYES HALL.

DOMESTIC ART.

5. **Lectures on the Industrial and Artistic Evolution of Society.** History of the early races considered with special reference to the development in culture gained through hand-work. Practice work: Preparations of a series of models comprising the different stitches used in plain hand sewing; ornamental stitches and simple embroidery. One lecture and three practice periods each week. Fours hours credit. Second term.

6. **Lectures on Textiles.** Study of fibres; their growth and the processes of their manufacture. Comparative economic values of fabrics. Pratice work: Machine and hand work on underwear; drafting from simple measurements; designing in pencil; use of patterns; making shirt waists or wash gowns; Simple straw hats and bows. One lecture and three practice periods a week. Four hours credit. Third term.

7. **Lectures on Historic Costume.** Consideration of line, form and color; hygienic and artistic dress; treatment of wool and silk fabrics. Practice work: Drafting patterns by use of Tailoring System. Cutting and fitting. Making wool dress. Making of hat frames, covering and trimming the same. One lecture and three practice periods a week. Four hours credit. First term.

8. **Lecture and Practice Work.** Continuation of Course 7. As much time as possible being given to pencil and water color designing of costumes and hats suitable to different wearers. Original designs required to be made and carried out in the case of each individual pupil. One lecture and three practice periods a week. Four hours credit. Second term.

9. **Lectures on History of Domestic Art and Architecture and the Application of Art to Modern House Decoration.** Practice work: Continuation of Course 8. Further work in practical custume making as may be designated by the instructor; the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. One lecture and three hours practice work each week. Four hours credit. Third term.

Note. Individual instruction is given throughout. Pupils are required to furnish all materials except those used in making models of Course 5. A certain amount of work is required to be completed before admittance is given to the next higher grade of work.

DRAWING.

(Hayes Hall, Rooms 22, 24 and 37).

Associate Professor Bradford, Assistant Professor French,
Mr. Lewis.

1. **Freehand Drawing.** Practice and occasional lectures. Practice in pencil, charcoal and pen drawing from models and plasters casts. Two drawing periods a week, first, second and third terms.

10. **Mechanical Drawing.** Lectures and practice. Elementary mechanical drawings, lettering and working drawings. Two periods a week, first term.

ART ROOM. HAYES HALL.

MECHANICAL DRAWING ROOM, HAYES HALL.

15. **Technical Drawing.** Lectures and practice. House planning. Two periods a week ; second and third terms.

16. **Technical Drawing.** Lectures and practice. Designing, preparing working drawings and specifications for structures related to agriculture. Three periods a week ; third term.

ART.

An elective course in Art offered by Department of Drawing. Must be preceded by Course 1. in Drawing or its equivalent elsewhere.

17. **Lectures and Practice.** Lectures on color standards, color theory, color harmony, color appearances, tone and gradation, atmosphere and values. Practice in color work either water or oil color. First term. Lectures illustrated by lantern slides.

18. **Lectures and Practice.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.

19. **Lectures and Practice.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term. The above is to be offered as an elective for two or three hours as follows : Lecture for one hour and practice for two or four hours as the student has time.

ECONOMICS AND SOCIOLOGY.

(University Hall, Rooms 17 and 18).

ASSOCIATE PROFESSOR CLARK.

2. **Elements of Political Economy.** A careful study of the laws of production, exchange, distribution and consumption of wealth ; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures, and individual investigations. Four times a week during first term and first half of second term.

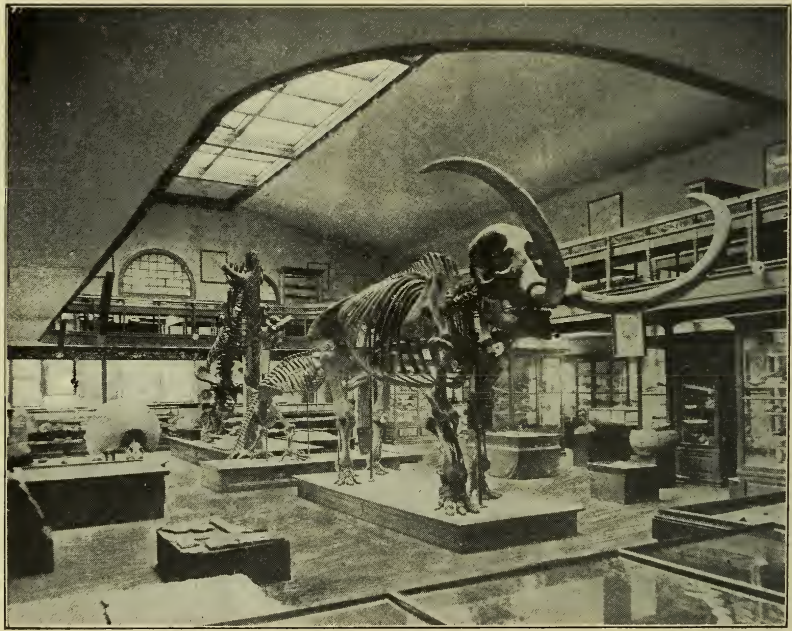
EDUCATION.

(University Hall, Rooms 51 and 54).

PROFESSOR GORDY, MR. HAMILTON.

1. **Elementary Educational Psychology.** This course is intended to be helpful to three classes of students : (1). Those who are not preparing to teach, but who wish to make some study of education in order that they may perform their duties as members of society more intelligently. (2). Those intending to teach and who wish to study the relations between psychology and education. (3). Those preparing to be superintendents and

BOTANICAL GREENHOUSE, CENTRAL BED IN SEC. I. BOTANICAL HALL.



GEOLOGICAL MUSEUM, ORTON HALL.

who wish to get suggestions as to the best method of teaching Psychology to teachers. The text used is Gordy's Psychology. Students will be required to do collateral reading and bring in reports of their work. Four times a week during first term and first half of second term.

ENGLISH LITERATURE.

(University Hall, Room 31).

PROFESSOR BARROWS.

2. **An Introduction to English Literature.** This course includes; (1). An outline of the history of English literature. For this part of the work Pancoast's "Introduction to English Literature," is covered by three examinations. (2). Lectures on the elements of literary analysis and interpretation. (3). Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. This part of the work will occupy most of the time in the recitation room. The book first used is Palgrave's "Golden Treasury." Four times a week during last half of second term and third term.

21. **Shakespeare.** Three times a week. First term.

22. **American Authors.** Three times a week. Second term. Open to those who take Course 23.

23. **American Authors.** Three times a week. Third term. Open to those who have taken Course 22. All the Semester electives, from 53 to 65, are open to students who may wish to do a full year of work in this department, or who may wish to give one semester to this department and one to any other ; but Courses 21, 22, and 23, only can be elected by those who wish to take part of a year's work on the term plan. Course 2, is pre-requisite to all electives.

GEOLOGY.

(Orton Hall)

ASSOCIATE PROFESSOR PROSSER, ASSOCIATE PROFESSOR BOWNOCKER.

2. **General Geology.** Structural, historical and dynamical geology. Three hours lectures and recitations and four hours laboratory and field work. In the laboratory, Dana's Manual of Geology, the Ohio Geoglogical Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.

5. **Economic Geology.** The common minerals and rocks composing the earth's crust, their alteration and decomposition. Soils, their orgin and classification ; the soils of the United States and especially those of Ohio. Fuels: coal, oil, and gas. Building stones, limes and cements. Iron and the most useful metals. Three hours. Second term. Lectures and laboratory work.

1. **Physiography.** The probable origin of the earth and its relations to other heavenly bodies. The features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures and map work. Five hours. Third term.

GERMAN LANGUAGES AND LITERATURES.

(University Hall, Rooms 30, 32, 38).

PROFESSOR EGGERS, ASSOCIATE PROFESSOR MESLOH.

1. **Elementary.** Four times a week through the year.

2. **Science Reading.** Twice a week through the year.

4. **German Literature.** Four times a week through the year. German 1, is required in the course in Agriculture in the third year. German 1 and 4 are required in the courses in Horticulture and Domestic Science in the second and third years respectively. German 2 or 4 may be elected by students in Agriculture who have finished 1. German 2 or 57 and 58, (see General Catalogue) may be elected by students in Horticulture and Domestic Science who have finished previous courses, i. e., 1 or 1 and 4, respectively.

HORTICULTURE.

(Horticultural Hall)

PROFESSOR LAZENBY, MR. PRICE.

1. **Elements of Horticulture.** Lectures, text-book and laboratory work in garden, orchard and green-house. A study of the principles of plant growth and culture, preparation of soil, drainage and irrrigation, weeds and insects. Four times a week. First term.

2. **Greenhouse, Construction and Management.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The vegetable forcing house, and the crops grown therein. Lectures, recitations and laboratory work in greenhouse. Four times a week. Second term.

3. **Plant Propagation.** The theory and practice of multiplying plants by seeds, cuttings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Practice in transplanting, pollinating and the use of insecticides and fungicides. Lectures and laboratory work in garden and orchard. Four times a week. Third term.

4. **Varieties of Fruit.** A study of the history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food value. Practice in judging and scoring apples, pears, peaches, grapes, citrous and nut fruits. Lectures, recitations and laboratory exercises. Four times a week. First term.

5. **Principles of Fruit Culture.** A study of the location, tillage and fertilizing of fruit lands ; the selection of varieties, laying out and planting of fruit grounds ; the care of fruit plantations, including diseases,

insects and fungi; spraying and the use of insecticides and fungicides; harvesting, preserving and marketing fruit. Lectures and recitations four times a week. Second term.

6. **Small Fruit Culture.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross-pollinating, judging and scoring of small fruits ; the relation of bees and birds to horticulture; insect enemies ; fungus diseases and the theory and practice of spraying. Lectures, recitations and laboratory work in garden and orchard. Four times a week. First term.

7. **Elements of Floriculture.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures and laboratory work. Twice a week. First term.

8. **Commercial Floriculture.** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures, recitations and laboratory work. Twice a week. Second term.

9. **Amateur or Home Floriculture.** Including the study of window gardening and general management of house plants ; the out door flower garden and treatment of flower beds and borders. Lectures, recitations and laboratory work. Twice a week. Third term.

10. **Arboriculture.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges ; methods of propagation and culture. Lectures and field work. Twice a week· First term.

11. **Forestry and Sylviculture.** A study of the influence of forests upon soils, crops and climate ; forestry in Europe ; value of trees for timber ; establishment and management of small plantations of forest trees ; how to improve and extend existing woodland. Lectures and laboratory work. Twice a week. Second term.

12. **Landscape Gardening.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and practice. Twice a week. Third term.

HISTORY.

AMERICAN HISTORY.

(University Hall, Rooms 27 and 18).

PROFESSOR KNIGHT, DR. J. B. SANBORN.

5. **Political History of the United States.** Lectures, text-books and prescribed readings. Hart's Formation of the Union ; Wilson's Division and Reunion. Four times a week during the first term and the first half of the second term. Two sections. The aim of this course is to give the student such knowledge of the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions.

THE FORGE ROOM, HAYES HALL.

THE CARPENTER SHOP, HAYES HALL.

INDUSTRIAL ARTS AND SHOPWORK.

(Hayes Hall, Rooms 9, 12, 17, 18, 5 and 6).

PROFESSOR SANBORN, MR. RENCK, MR. CROWE.

SHOPWORK

1. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools ; center and chuck turning ; the making of finished patterns ; and enough elementary moulding to illustrate draft, parting, cores, etc. Second term. Two three hour periods a week.

2. **Forging.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs. Second term. Two three hour periods a week.

MATHEMATICS.

(University Hall, Rooms 39, 41, 43 and 45).

PROFESSOR BOHANNAN, ASSISTANT PROFESSOR ARNOLD, MISS BALL.

1. **Elementary Algebra.** *Venable.* Five times a week. First term.
3. **Plane Geometry.** *Venable.* Five times a week. Second term.

MECHANICAL ENGINEERING.

(Hayes Hall, Room 12 ; Mechanical Hall, Second Floor).

PROFESSOR MAGRUDER, ASSOCIATE PROFESSOR HITCHCOCK.

26. **Steam Machinery.** Once a week. One lecture a week on the care of steam engine and boilers, pumps and injectors, and of ammonia refrigerating machinery. Course in Dairying.

MILITARY SCIENCE AND TACTICS.

(Armory)

MAJOR BURNS.

1. **Military Drill.** Three times a week through the year.
2. **Tactics.** Lectures and recitations. Twice a week. Second term.
3. **Art of War.** Lectures and recitations. Twice a week. Second term.

PHYSICS.

(University Hall, Room 14).

PROFESSOR THOMAS, MR. KESTER.

1. **Elementary Physics.** Recitations and experimental lectures. Five times a week. First and Second Terms. Text: Carhart & Chutes' "Elements of Physics". This course is required of students in the first year of the Short Course in Agriculture. Other courses in Physics may be elected by fourth year students in Agriculture. For description of such courses and of the equipment of the department, see general catalogue.

RHETORIC AND ENGLISH LANGUAGE.

(University Hall, Rooms 42, 40, 38 and 55).

PROFESSOR DENNEY, ASSISTANT PROFESSOR GRAVES, ASSISTANT PROFESSOR McKNIGHT, ASSISTANT PROFESSOR ALLEN, MR. PARKER.

5. **English Composition.** Three terms. Three times a week. Credit two and one-half hours. (*a*). Scott and Denney's Paragraph Writing ; Macauley's Warren Hastings ; Cairns' The Forms of Discourse. Themes, Twice a week. (*b*). Oral Practice. Once a week with the instructor in public speaking.

4. **Advanced Composition.** Three terms. Twice a week. Course 4 is intended for students desiring further practice in composition. Course 4 will not be given unless chosen by ten or more students. Elective in the course in Agriculture, Horticulture, and Domestic Science.

ROMANCE LANGUAGES AND LITERATURES.

(University Hall, Rooms 35 and 34).

1. FRENCH.

PROFESSOR BOWEN, ASSISTANT PROFESSOR BRUCE, MR. DOWD.

1. **Elementary French.** Four times a week throughout the year. Grammar and reader, modern prose and plays. Grammar ; Joynes' Minimum or Edgren's (Part 1) or Whitney's (Part 1), with written exercises. Reader ; Super's (from Part 2) or Whitney's (Parts 1 and 2) or Kuhns' French Reading for Beginners. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. After the completion of the reader, historical and narrative prose works are taken up, followed by the study of one or more prose comedies. All the works read are taken from nineteenth century literature. As the texts used vary from year to year, no special volumes or editions are here cited. Toward the close of the year sight reading is emphasized.

2. **Modern French Literature.** Four times a week throughout the year. The study of the literature as such is now taken up. The work of the year covers a survey of four fields ; (1). Contes and Historietts (Fontain's Historiettes Modernes, Tome 2). (2). The Novel (Balzac, Eugenie Grandet); (3). Lyric Poetry (Bowen's Modern French Lyrics) ; (4,. The Drama ; Comparative study of the classical and the romantic drama (Corneille, Horace ; Hugo, Hernani). Private reading is also required, covering selections from the short stories of Daudet and an espisode from Hugo's les Miserables. The work is supplemented by lectures ; these include a general survey of French literature from its beginning, together with special lectures on Balzac, Victor Hugo, Corneille and the classical and

romantic drama. During the first half year one hour a week is also given to practical work (prose composition, conversation, study of syntax and idiom, as found in Chardenal's French Exercise for Advanced Pupils). This course is open to those who have completed Course 1, or who have received credit for French as an entrance subject.

VETERINARY MEDICINE.

Professor White, Dr. Lavery.

28. **Veterinary Anatomy.** Special course for students in agriculture Brief outline of the anatomy of the horse and ox. First term. Lectures and recitations four times a week. Clinical practice once a week.

29. **Veterinary Practice.** The more common diseases of a non-infective character, to which farm animals are subject. Minor surgery, castration, and the principles of horse shoeing are included in this course. Second term. Lectures and recitations four times a week. Clinical practice once a week.

30. **Veterinary Practice.** The more common infectious and contagious diseases affecting farm and dairy animals, and the most scientific methods of preventing, dealing with and treating the same. Third term. Lectures and recitations four times a week. Clinical practice once a week.

17. **Diseases of the Cow.** Special course for students in Dairying. Lectures and demonstrations consisting in the following:— (*a*). Anatomy of the cow with special reference to the digestive, reproductive and milk-producing organs. (*b*). The more common non-infectious diseases of these organs and their treatment. (*c*). Most important infectious and contagious diseases and methods of preventing and dealing with them. (*d*). Practical methods of administering medicines, securing during operations, casting, etc. Second term. Three hours per week.

*ELECTIVES.

Veterinary Medicine (11; 12; 13) 5. (Anatomy) First, second and third terms. Veterinary Medicine (14; 15; 16) (General Pathology and Theory and Practice). Five times a week throughout the year. This Course should be preceded by Veterinary Medicine(11; 12; 13) 5 and by Physiology (1) 3. Veterinary Medicine (19) 3. (Horse, Cattle, and Dog Clinic in the Veterinary Hospital). Daily, including Saturdays, 10—12 M· First, second and third terms. Veterinary Medicine (21—22) 3. (Infectious and contagious diseases). First and second terms. Veterinary Medicine (23) 3. (Obstetrics). Second term. Veterinary Medicine (26) 3. (Principle of Horseshoeing). Third term.

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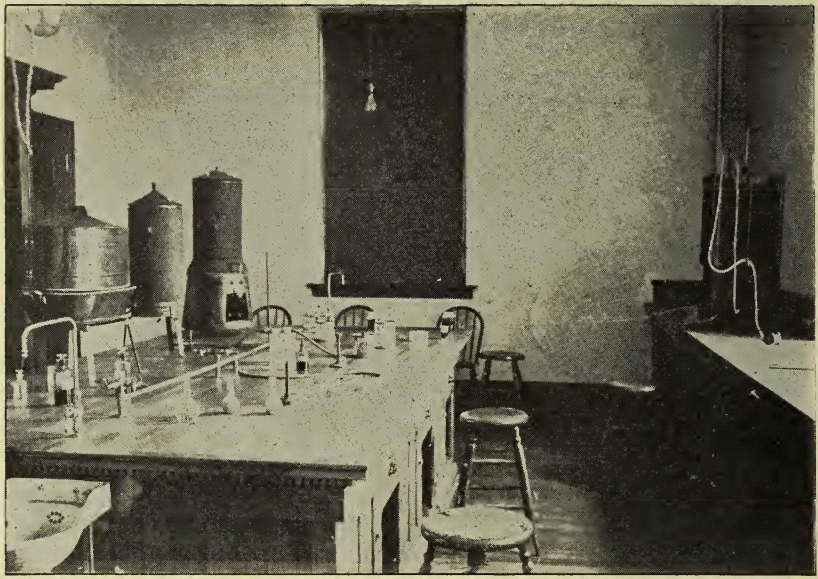
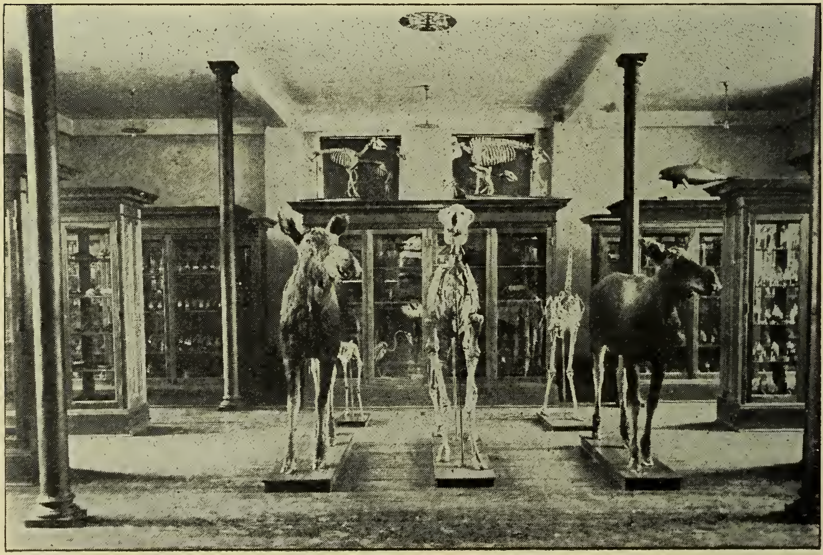
*Although the above electives are especially recommended, agricultural students who have had Anatomy and Physiology may elect any subject taught in the College of Veterinary Medicine.



BACTERIOLOGICAL LABORATORY, BIOLOGICAL HALL.



ZOOLOGICAL MUSEUM, BIOLOGICAL HALL.

ZOOLOGY AND ENTOMOLOGY

(Biological Hall, Rooms 3, 4, 7, 8 and 9).

PROFESSOR OSBORN, ASSISTANT PROFESSOR HINE, MR. LANDACRE.

1. **Invertebrate and Vertebrate.** Three times a week. Invertebrate, first and second term ; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domesticated species.

3. **Economic Entomology.** Insects of Forest, Orchard and Garden. Five times a week. Third term. A detailed study of injurious species intended particulary for students of Horticulture. The work includes field studies, collections, reports on observation, etc.

4. **Economic Entomology.** Twice a week, through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy and class recitations and lectures.

7. **Systematic and Practical Entomology.** Two lectures and one laboratory period a week. Third term. An elementary practical Course for students in the Short Course in Agriculture.

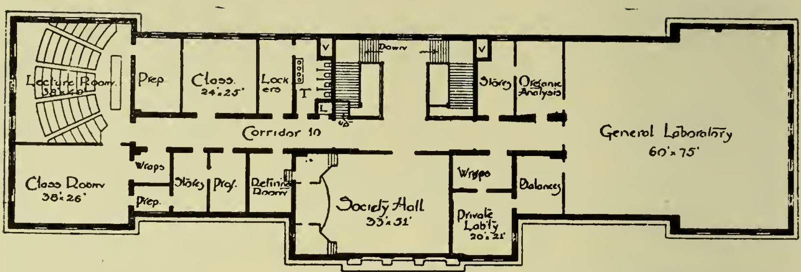
8. **Parasites of Domestic Animals.** A lecture course devoted to the principle parasitic animals affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. First term.

9. **Special Entomology.** Studies of life-histories, collection and classification in selected groups. Field work and lectures. Four periods each week. Elective. Fall term.

10. **Special Entomology.** Studies of winter condition of Insects, Insecticides, Insecticide machinery, Methods of preparing insect illustrations, Greenhouse pests, etc. Four periods each week. Elective. Winter term.

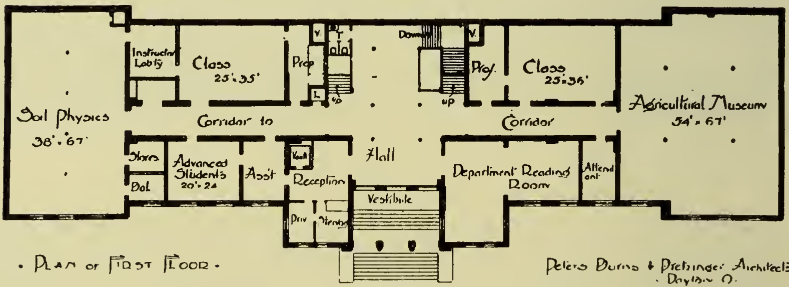
11. **Special Entomology.** Investigations of selected groups or species. Lectures on Insects legislation, distribution, natural enemies, special methods of control, etc. Four periods each week. Elective. Spring term.

Courses 9, 10 and 11, are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.



Peters, Burns & Pretzinger, Architects.
– Dayton O. –

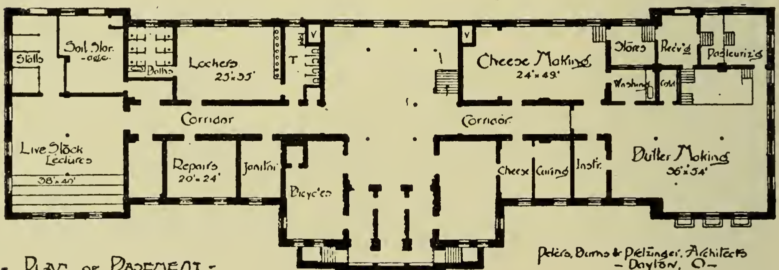
• Plan of Second Floor •
– Townshend Hall – Ohio State University –



• Plan of First Floor •

Peters Burns & Pretzinger Architects
· Dayton O.

· Townshend Hall · Ohio State University ·



• Plan of Basement •

Peters, Burns & Pretzinger, Architects
– Dayton, O. –

Townshend Hall – Ohio State University –

FLOOR PLANS OF TOWNSHEND HALL.

EQUIPMENT AND FACILITIES FOR INSTRUCTION.

Agriculture. This department is located in Townshend Hall, headquarters for the College of Agriculture and Domestic Science, which was completed in 1898 at a cost of $100,000. This agricultural building is named after that illustrious pioneer in "education for agriculture", the late Dr. N. S. Townshend, who for twenty-five years was professor of agriculture in the Ohio State University, and who, in 1854, associated himself with James Dascomb, John S. Newberry, and James H. Fairchild, in establishing the "Ohio Agricultural College" at Oberlin. Townshend Hall is a memorial to his public services and his work in advancing the cause of agricultural education.

Townshend Hall is 260 feet long, and varies in width from 64 to 78 feet. It contains two stories, and a basement which is fourteen feet high, making the building practically three stories high. The walls above the basement line are of gray pressed brick. The basement walls and the front entrance are of Bedford, Indiana, Oolotic limestone and the trimmings are of terra cotta of the same color as the brick. The roof is of dark red tile.

The building is of slow burning construction throughout with painted interior brick walls, exposed beams, maple floors, and hard pine finish. Throughout the dairy department, which has about 6,000 square feet of floor space, the floors are of tile and the walls enameled brick. The floor plans on the page opposite show the arrangement of offices, class rooms and laboratories.

The department is supplied with apparatus for studying the effect of grade angle, height of obstruction, height of hitch, size of wheel and weight of load on draft of wagons. A large model shows correct and incorrect methods of making and using the doubletree. A wooden model demonstrates the effect of high and low hitch and width of hock on the pulling capacity of the horse. A self registering dynamometer is used to determine the draft of vehicles and farm implements under varying conditions, a number of implements being kept for this special purpose. Drainage levels are used in leveling and laying out tile drains. The Agricultural Museum contains many of the latest patterns of farm machinery, including self binders and mowers from all of the leading manufacturers. In the study of soils, the large glass house with its equipment of railroad tracks, trucks and pots affords opportunity for the student to test the adaptability of crops to various soils; the fertilizer requirements of soils and to experiment on various other problems of crop growth. The soil physics laboratory is supplied with apparatus for studying the specific gravity of soils; volume weight of soils; power of loose soil to retain moisture; power of compact soil to retain moisture; rate of flow of air through soils ; rate of percolation of water through soils ; effect of mulches on evaporation of water from soils ; effect of cultivation on evaporation of water from soils ; power of dry soil to absorb moisture from air ; and the capillary rise of water through soils. Mechanical analyses are also made of typical soils.

In the study of crops, large use is made of the collection of dried specimens of grasses, grains, and seeds. The grass garden contains about twenty-five varieties of grasses and clovers, growing side by side where comparisons may be made as to the value of each for pasture, meadow and grass. The farm is visited frequently by the students who make observations and studies of the practical methods there employed in the growing of crops and in the feeding and management of live stock. The live stock judging room is supplied with implements for precise measurement of animals and with score cards of all the different types of domestic animals. The students are here given opportunity to study every detail of conformation. The animals used are selected from the University farm or are contributed from time to time by the breeders of the state. Some of the best animals of their kind in the state have been brought here for the students to study. Numerous excursions are also made to the farms of leading breeders, both for the purpose of studying types and methods. The class room is provided with a stereoptican and a large collection of carefully selected lantern slides of the leading individuals of several breeds of live stock. The herd books of the several breeds is made use of in familiarizing the students in methods of tracing pedigrees and the practices of breeders' associations.

The dairy laboratory has one of the finest equipments in the country. In the spacious creamery room are a dozen different styles and sizes of cream separators and the student is enabled to obtain a thorough knowledge of the mechanism and efficiency of this class of machinery. There are also half a dozen styles of churns and butter workers of different types including some of the latest inventions. A number of hand power and steam turbine milk testers are supplied for testing milk and the products therefrom. The work of the student in this part of the dairy laboratory is checked up each day by means of eleven different report blanks, which the students are required to fill out and hand to the instructors in charge. The room in which the bottling, and pasteurizing of milk and cream is carried on is an exceptionally fine one. In it are vats, wash-sinks, separator, two styles of pasteurizing machinery, bottling apparatus and a large steam sterilizing oven. The cheeze department has the use of spacious, well-lighted, making room and curing rooms. In the equipment are vats, three styles of presses, curdmills, etc., for the manufacture of Cheddar cheese, and the necessary and apparatus for making brick and Edam cheese. Students in this part of the work make daily reports on five different forms of blanks. In an adjoining power house are found a boiler, two engines, pumps, and refrigerating machinery, which are operated by students under the direction of an instructor· The student is taught to make the best possible product with the least loss of raw material, and to handle the machinery carefully. Important points in the work are drawn out in the class rooms by means of lectures, recitations and written examinations.

Agricultural Chemistry. The department of agricultural chemistry occupies the greater part of the second floor of Townshend Hall. The main students' laboratory is at present fitted up with ninety-two desks, and when completely fitted up will accomodate one-hundred and fifty students. Each desk contains a complete outfit of apparatus and chemicals necessary for the work in hand. The outfit in each desk is secured by combination locks. Special apparatus and chemicals are supplied from the store room. Each desk is supplied with gas and water. Hoods for evaporation and generation of noxious gases and liquids are conveniently arranged on both sides and one end of the laboratory. From the main laboratory, easy access is had to the balance of the room and private laboratory of instructor on one side and to the organic analysis and assistant's room and store room on the other. A room entirely detached from the main laboratory is fitted up for water analysis and for the polariscopic determination of sugar. The lecture room is capable of seating one-hundred and fifty students. In connection with it is a preparation room, which is supplied with the necessary apparatus and specimens for illustrating the lectures. This floor also contains a resting room and a toilet room for young women.

Bacteriology. The first half of the term, during which, this subject is taught, is taken up by lectures and recitations, the latter half is given to laboratory work. Bacteria are first studied in a general way and in their general relationship to man and his surroundings. Then is taken up a more specific study of their influence and work in soils in higher plant growth and in animal life, together with their important and manifold performances in milk, butter and cheese. In the laboratory is taught the preparation of culture media, the methods of study for bacteria, the isolation of pure cultures and the numerical examination of water, milk and air. A special room is set apart for this work provided with incubators, sterilizers and all other necessary apparatus. Students so desiring may elect advanced work along the lines indicated.

Botany. The department offers good facilities for instruction and investigation. The Botanical Building contains a large lecture room, Museum, Herbarium, three laboratory rooms, dark room, drying room, store room and offices. The lecture room will, the coming year, contain a stereoptican furnished with electric light ; a large number of charts, many of them colored lithographic, photographs and mounted illustrative specimens are the other principle appliances for daily class work. In this room are placed fifteen of the more important popular journals of Botany for the use of students. The Botanical books in the University Library, a valuable and growing collection, are largely used for reference in connection with the several courses. The Museum contains a large amount of illustrative material ; the native medicinal plants and the collection of Ohio woods being very complete. The State Herbarium consists of between twelve to fifteen thousand sheets of Ohio plants. The general herbarium is about the same size. Professor Kellerman's private herbarium of twenty thousand specimens, mostly parasitic fungi, is also used by the department. The large laboratory is well equipped with dissecting and compound microscopes; also the usual appliances for doing both elementary and advanced histological work. One of the small laboratories is devoted to experimental work in vegetable physiology and the other to systematic Botany. The green-house attached to the Botanical building is an important adjunct to the department. There are four sections containing a total of nearly 3,000 feet of glass. It contains a large number of illustrative plants, perhaps 3,000 specimens representing the principal plant families and belonging to several hundred species. The green-house furnishes much fresh material for laboratory use. It is also used as a laboratory to carry on special work when growing plants are used.

Domestic Science. The periods devoted specifically to the study of Domestic Science are quite fully outlined in the preceding pages and it seems unnecessary to elaborate here. Sufficient to say that the course aims to supplement the work of other departments and to apply to practical house life. The study of Botany, Zoology, Chemistry, Physiology and Bacteriology makes it possible for the student to understand the functions of various organisms and to appreciate the changes constantly occuring in plants and animals. The needs of the body in a superficial way have long been taught, but it is imperative that every one who attempts to maintain life at its best, should know definitely what is required for a human being and how to provide it. A woman should be conversant with the food principles, know where they are to be found, in how large proportion they should be supplied, how they are best prepared for consumption and the effect of each in the body. In a general way she should be able to analyze disease and be prepared to guard against it. Again sociology has an especial bearing upon home life; the personal assistance given to individuals, either in the home or by means of charities, is largely delegated to women and they might accomplish far more for humanity if they gave less outright and were prepared to teach the dependents better means of helping themselves. Industrial activities demand consideration. The consumptive side of Economics is as important as the productive side and belongs to women. They should know absolute values, from every standpoint, and this knowledge does not come by studing text-books, but by actually dealing with things. The home is founded on and protected by sanitary and hygienic laws and the mastery of them is quite within the province of every woman, when competent teachers are prepared to expound them. Their study is of no less interest than that of other sciences and every science and art is made more vital and more fascinating by a knowledge of some definite way in which it may be applied.

Domestic Art. The object of this course is to give the student an insight into that cultural development of the race which has been gained through handwork. The work is taken up along advanced educational lines ; the value of manual training is emphasized and an effort is made continually to correlate the subjects taught in the Department of Domestic Art with other College work, such as History, Botany, Literature, Anthropology, Sociology, Economics, Drawing, etc. It is felt that too much stress can not be laid upon the development of character as gained through manual training and besides deftness of hand is a needed accomplishment with every woman. It is believed that education is incomplete which fails to develop the native artistic abilities of the pupil and to give to her a training in ways and means of usefulness which shall make her succeed when she enters the world as home maker or wage earner. Too many women are useless drones in society, burdens in the home or in the world at large because they have so few resources ; they have not learned to adapt knowledge or to work out with their hands useful and artistic ideas held in the mind. Emerson says : "The creation of beauty is art, and the love of beauty is taste." To develop good taste, is to insure homes of taste, and this implies architectural beauty of the house proper, artistic decoration of the interior and harmonious dressing of the inmates. Manifestly this involves the study of a number of subjects, not strictly bearing upon Domestic Arts but Domestic Art has its place since taking as our ideal the thoroughly rounded character, the well developed woman physically, mentally and morally, we must add to all other knowledge those touches of grace, given perhaps more especially than by any other lines of study, through a study of Art. It is through Art that we come to appreciate beauty in line, form and color and by applied work, following the recognized principles of the best artists we are able to develop originality and skill in ourselves. The work of the Art Department and the work of the Domestic Art courses are being arranged more and more to complement each other and besides the technical training in sewing necessary as a foundation to the right treatment of fabrics, the course is simply applied work in Art —'Art in every day relations.'

Drawing. The department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for the practical training in same :—For freehand drawing, water color and oil painting : A large studio thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easles, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster-casts of ornaments, flowers, fruit and the antique. For mechanical drawing and mechanical and architectual designing :—A large, well lighted room forty by eighty-five feet, provided with O. S. U., drawing tables (30 by 36 tops), a set of Schroeder models, a collection of shop drawings and facilities for blue-printing. In addition to the above, the library contains a well selected collection of books pertaining to the work of the Department.

Geology. The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late geological survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. Orton Hall, completed at a cost of more than $100,000, is designed for the permanent accommodation of the large geological collection of the University and for the work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fire proof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room ; at the left is the University library and reading room. The central and rear portion is occupied by the geological and paleontological museums. In the basement the economic museum is located. On the second floor is located the paleontological and petrographical laboratories and the archeological museum.

Germanic Languages. The department possesses as aids in illustrating and supplementing the work, the following collections ;— Complete sets of maps of European and specifically Germanic countries ; a large number of illustrated volumes, showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in Germany at different epochs. This collection is the largest of its kind in the State ; a number of photographs of the leading authors of Germanic Literatrue.

Horticulture and Forestry. This department has under its immediate control about twenty-five acres of land. About one-half of this area has been planted with numerous varieties of cultivated fruits. The remainder is devoted to market gardening. Students have an opportunity of observing all the operations carried on from the sowing of the seed and transplanting, to the harvesting and marketing of the crop. Among the facilities for instruction and illustration that deserve special notice are two vegetable forcing houses with packing rooms, tool rooms, etc. These houses are attached to Horticultural Hall and are each one-hundred and twenty feet long by twenty in width. They are heated by hot-water. One interesting feature in the management of the forcing houses is the method of watering by sub-irrigation. This method had its origin in these houses and marks a great step in advance in green house management. Lettuce, radishes, cucumbers, parsley, cauliflower, onions, rhubarb, asparagus and other vegetables are grown in the forcing houses during the college year. Among the additional facilities provided for the illustration of the different courses in the department, and for practical training in the same are (1) orchards, containing well selected varieties of apple, pear, plum, cherry and quince ; (2) a small vineyard, containing some of the standard varieties of grape; (3) small fruit plantations, stocked with some of the best varieties of strawberry, raspberry, blackberry, currant and gooseberry; (4) large vegetable gardens, with pipe heated hot-beds, cold frames, conveniences for irrigation, experimental plats, etc.; (5) a small nursery and forest tree plantation, with practice rows for budding, grafting, pruning and training; (6) ornamental grounds and native woodland, containing a large variety of evergreen and deciduous trees and shrubs; (7) a green-house, with an extensive collection of exotic plants; (8) a collection of seeds, woods and other preserved natural specimens; (9) a collection of fruit in jars, also models of apples, etc.; (10) a laboratory well equipped with dry ovens, balances, seed testers, and other appliances for study and research; (11) a collection of horticultural hand tools for budding, grafting, pruning, etc.; (12) a small apiary of a dozen or more colonies of bees.

Mechanical Engineering. The Mechanical Engineering Laboratory contains a large collection of steam and gas engines, steam and power pumps, engineering instruments and apparatus, models of machinery, and samples of engineering supplies which are instructive and are open to the inspection of the students in the Course of Agriculture and Dairying.

Physics. The Department of Physics occupies the west half of the first and second floors and basement of University Hall. The equipment allows full experimental illustration and a wide range of individual work by the student in the laboratory.

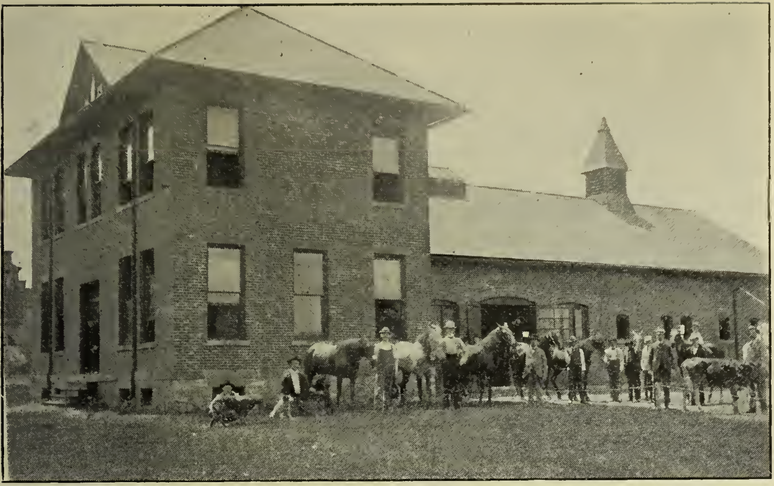
Physiology. Instruction in this subject is given by lectures, demonstrations and recitations. Incidental to the main work so much of anatomy and histology is given as will render the processes going on in the living body comprehensible. A limited amount of laboratory work is introduced during the course so that the student may personally familiarize himself with the actual appearances of things discussed in the class room. The equipment for teaching and demonstrating in this department consists of numerous Azoux and other models, charts, physiological apparatus, skeletons, microscopes and other accessories ample to meet all requirements for thorough instruction.

Romance Languages. The department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps, including map of Paris; illustrated volumes showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in France at different epochs; large photographs and engravings of the principle French writers; collections of French prose extracts for use in sight reading.

Shopwork. The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making and forging. The carpenter and pattern shops are equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone. The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot power hammer, a blacksmith's drill and punch, shear and bar cutter. The blast for forges is furnished through underground piping by a 45'' Buffalo pressure blower, and the smoke is removed by a 55'' Buffalo exhaust fan over head. Both of these fans are driven by a 15-horse-power electric motor.

Veterinary Medicine. Students in Agriculture taking required or elective work in veterinary medicine can avail themselves of the whole equipment of the College Veterinary of Medicine. For class room work a large number of paper models, wet and dry anatomical specimens, sample horseshoes, charts, diagrams and drawings, surgical instruments and apparatus are constantly employed to supplement text book teaching in all classes. The Veterinary Hospital, a plain brick building, affords excellent facilities for the care and treatment of diseased and injured animals, giving the students an opportunity to become familiar with and learn practically the maladies to which domesticated animals are subject. It contains box stalls, stall for cold water application, a large and well lighted operating hall and two special wards for smaller animals. A drug dispensary and office with telephone are on the first floor front of the building. The upper floor is occupied by the house surgeon and two students selected from the senior veterinary class, who have immediate charge of the animals left for treatment. The free clinic is held for two hours daily (Saturday included) at this building. During the clinic hours agricultural students taking Courses Veterinary Medicine (29:30) and those electing Veterinary Medicine (19), 3, are required to assist the instructors in all surgical operations (castration, spaying, examinations for lamenesses, dental work, etc.) and to administer all medicines to sick animals, under the direction of the hospital staff. Inasmuch as from 1000 to 1500 animals are treated annually at this clinic, the students have ample opportunity to learn in a practical way the best methods of treating diseased and injured stock. A herd of fifty cattle, a drove of hogs, and several horses kept on the University farm furnish clinical material during the college year. The dairy herd is tested with tuberculin once a year, to determine if tuberculosis be present. The students conduct this test, under direction of the veterinary instructors, thus learning by actual doing, the modern method of diagnosing latent cases of bovine consumption.

Zoology and Entomology. Work in this department is largely on the laboratory plan, the effort being to have each student become familiar with typical forms of animal life, acquire the power to discover facts for himself and use them in practical applications. Animals that have an important economic relation are used as samples for their respective groups. While the aim is to give a thorough and sound training in the underlying principles



DAILY CLINICS AT VETERINARY HOSPITAL.

SURGICAL OPERATIONS, VETERINARY HOSPITAL.

of Zoology and Entomology, the practical bearing of these is shown by use of such examples as the liver fluke of sheep to show effects and relations of parasitism, the earthworm in its relation to soil formation, Trichina as effecting human health and meat exports, insects, both useful and injurious, fishes as a source of food, relation of birds to insect control and importance of certain groups of birds and mammals as the source of our domestic animals. Advanced courses provide for training in methods of research and especial attention is given to preparation for investigation as experiment station workers in Entomology or Zoology. The adjacent fields, wood, lake and river along with various well equipped laboratories, museum and department library give abundant opportunity for study. The collections of all skeletons, birds and insects are especially rich. The department occupies the first and third floors and part of basement in the new Biological Hall and is well provided with laboratory rooms and space for special lines of work. The Lake Laboratory maintained at Sandusky and open from June 15 to September 15 offers Courses of instruction and exceptional opportunities for original research in Entomology and Ichthyology. Particulars regarding it may be had by applying for special circular.

Library. The University Library is a well selected collection of 32,000 volumes. The character of the collection is high and the students in all departments of University work find it an excellent working library. The books occupy the first, main, and balcony floors of the east end of Orton Hall and on each floor is to be found reading room space with comfortable chairs and tables. The shelves are all open, each student having the privilege of going directly to them, thus gaining familiarity with books which is a source of power the value of which can scarcely be estimated. The students are not thrown entirely on their own resources however, the reference assistants being always ready to help a student in looking up his subject and also to instruct him in the best methods of using the books for himself. The library is gradually accumulating sets of scientific serials and transactions which are of the greatest value to all scientific workers in whatever field. Its periodicals list at present numbers 263. The students in the College of Agriculture and Domestic Science have in some respects especially excellent library facilities. The majority of the books bearing on their work are to be found in the General Library, but there is also in Townshend Hall, a special department library and reading room. In the General Library are approximately complete sets of Agriculture Reports of all the states, of the Experiment Station Bulletins and of the Bulletins of the United States Agricultural Department. In addition there is a good collection of general works and of periodicals, treating on agriculture and its allied subjects. In the Department Library are kept the Herd Books, duplicate sets of United States Agricultural Reports, and Ohio Agricultural Reports, and a large number of papers. These the students can often read between classes, when there is not time to go to the General Library.

ADMISSION, ATTENDANCE AND GRADUATION.

The entrance examinations for 1900 will be held on Monday, September 17.

Applicants for admission to the College of Agriculture and Domestic Science must be at least sixteen years of age, and must be provided with credentials of scholarship from their last instructors, or from the last institution with which they have been connected, and with certificate of good moral character.

There are three modes of admission to the University :

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions :

Each certificate must contain a detailed statement of the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study, should accompany the certificate ; and both should be sent to the University not later than the first of September. The University cannot promise this recognition to certificates presented during the entrance week.

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismission.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on presentation of cards issued to them at their graduation through their principals.

3. All other applicants are subject to examination on the groups of study mentioned below.

Full equivalents for the text-books named will be accepted.

REQUIREMENTS FOR ADMISSION TO FOUR YEAR COURSES.

The following are the requirements :

1. *Arithmetic*, *Descriptive and Physical Geography*, *English Grammar and United States History.*

2. *English* (*a* —Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

(*b*) English Classics—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books ; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite;* Milton's *Paradise Lost*, Books I and II; Pope's *Iliad.* Books I, IV, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator ;* Goldsmith's *The Vicar of Wakefield ;* Scott's *Ivanhoe ;* Cooper's *The Last of the Mohicans ;* Macaulay's *Essay on Milton ;* Burke's *Conciliation with the Colonies.*

1901. *Macbeth* ; Burke's Speech on *Conciliation with the Colonies ;* Macaulay's *Essays on Milton and Addison ;* Milton's Minor Poems(*Comus*, *Lycidas*, *L'Allegro*, *Il Penseroso*); Scott's *Ivanhoe* ; Goldsmith's *The Vicar of Wakefield* ; Tennyson's *Princess ;* Coleridge's *The Ancient Mariner ;* Lowell's *The Vision of Sir Launfal.*

3. *Algebra*—Venable's Easy Algebra, complete or equivalent.

4. *Plane Geometry*—Venable, Wentworth, White or Wells, or equivalent.

5. *Botany*—Gray or Kellerman's Botany and Flora, or equivalent.

6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton, or equivalent.

7. Either of the following :

Civil Government—Fiske or Thorpe preferred.

History—Meyer's *General History*, or equivalent.

8. *Latin*—Pronunciation (the Roman method): Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico.*

Or French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading ; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose ; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or German—Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalent must have been read (not less than 300 pages).

Joynes' or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit, Freytag, Die Volerne Handschrift, Gerstäcker Irrfahrten.

For the present, the *German or French* required of admission may be begun at the University, but without University credits.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture. See page 17. Students may prepare in these subjects for entrance to the four year courses by entering the Short Course in Agriculture.

REQUIREMENTS FOR THE SHORT COURSE IN DOMESTIC SCIENCE.

The following are the requirements :

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*
2 *English*—(*a*) Composition and Rhetoric ; (*b*) English Classics.
3. *Algebra.*
4. *Plane Geometry.*
7. Either of the following :
Civil Government.
General History.

ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND THE COURE JN DAIRYING.

Applicants must be at least sixteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES.

Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions :

1. The regular entrance requirements must be satisfied.

But applicants who are not less than eighteen years of age, after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the Faculty to any class in the College ; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for a degree, he shall take the omitted entrance examinations at least twelve months before the degree is conferred.

2. On entering the College, students desiring to pursue special work are required to lay before the Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING.

1. Applicants who do not come from some other University or College must first obtain admission in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.

2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismission, will be admitted without examination, except such as may be necessary to determine what credit they are to receive here for the work done in the College from which they come.

REGISTRATION.

All students are required to register and pay their term fees on or before the first day of each term, between the hours of 8:00 a. m. and 12 m., or between 1:00 and 4:00 p. m., central standard time.

Former students who fail to register as above will be charged one dollar in addition to the usual incidental fee, for the first day of delinquency, and fifty cents additional for each subsequent day.

No candidate for graduation will be permitted to register for the second term of his graduating year, except upon presentation to the Bursar of the President's certificate that his thesis subject has been announced and approved.

AMOUNT OF WORK.

No student is permited to take less than fifteen credit hours a week of any sort of work, except by special permission, and no student will be permitted to take more than the regular work of the class to which he belongs, who has not passed all his work for the preceding term. A credit hour means one hour class room work in lecture, recitation or quiz, or two hours of laboratory work.

ELECTIVE STUDIES.

All elections of work in continuous studies, when once made, are understood to be made for the entire collegiate year.

The right is reserved to each professor to withdraw the offer of any elective study when it is not chosen by at least four persons.

EXAMINATION AND STANDINGS.

At the close of any term a student failing to pass in two-thirds of his work will be considered on probation ; and a second similar failure will forfeit his connection with the University.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than December 15th of the fourth year ; and the completed thesis must be presented in duplicate, on standard paper of certain size and quality, typewritten, bound, and titled, not later than the second Saturday before Commencement Day.

DEGREES

The degree of Bachelor of Science in Agriculture is conferred on students who have completed the Course in Agriculture; that of Bachelor of Science in Horticulture and Forestry upon those that have completed the Course in Horticulture and Forestry ; and that of Bachelor of Science in Domestic Science upon those who have completed the Course in Domestic Science. Master degrees are conferred upon graduates of these Courses at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved Course of study in the University. Each candidate is required in addition to present an acceptable thesis upon some subject connected with his Course of study.

AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily (except Saturday and Sunday) at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the scriptures, and prayer.

One of the most commendable organizations in the Unniversity is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the International Order of the King's Daughters and Sons holds its meeting once a week, and includes in its membership a majority of women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

LITERARY AND OTHER SOCIETIES

There are a large number of literary and technical societies and clubs which are open to the students of all colleges of the University. Among the literary societies are the Alcyone, Athenæan, Horton and Townshend Societies open to young men ; and the Browning and Philomathean Societies open to young women. These societies have commodious and well furnished apartments. They meet weekly and their work, offering to the students a very desirable training in composition, public speaking and parliamentary order, is a valuable adjunct to collegiate education. Among the technical societies may be mentioned the Asparagus, Biological, Ornithological and Political Science Clubs. The O. S. U. Sketch Club promotes interest in art among the students of the University, while various musical organization do the same service for music.

EXPENSES

COLLEGE DUES.

Incidental Fee. Each student is required to pay an incidental fee of fifteen dollars a year and the usual fees for the expenses of laboratory work. Tuition is free.

Laboratory Fees. Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows :

Agriculture 6	$10.00
" 15	5.00
Botany 6. 7. 8.	2.00
Domestic Science	5.00
Gymnasium	1.00
Shopwork	5.00
Zoology and Entomology	1.00

In the laboratory of the Department of Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water. He is also required to buy his own supplies, which may be obtained at the store-room in Chemical Hall. With reasonable care, this expense need not exceed $5.00 per term.

All term dues must be paid at the opening of each term as a condition of admission to classes.

A fee of five dollars to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred.

For information concerning text-books, etc., address, HONLINE & WEST, Ohio State University, Columbus.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms for students who desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees	$15 00	$15 00	$15 00
Laboratory fees	15 00	20 00	54 00
Books and stationery	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	......	......
Board	70 00	110 00	150 00
Uniform	14 00	14 00	14 00
	$143 50	$221 00	$348 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued. There is no need of a student spending more than the "average" for items mentioned; many spend less.

FREE SCHOLARSHIPS

A free scholarship good for the two-year Courses or for the first year of the Short Courses and first year of the the four-year Courses, is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee and all laboratory fees except the gymnasium fee of one dollar per term, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the Course. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of this College.

SELF-SUPPORT

There is a large amount of work on the University farm and campus and in the garden, orchard and greenhouses, which can be done by students, and for which they are paid at current rates for such labor. By this means, together with what can be earned by steady labor during the summer vacations, a considerable number of students defray all their expenses.

Preference is given to students who are willing to devote a certain number of hours each day to the work assigned.

Work cannot be promised to all applicants, and is not guaranteed to any.

Applications for employment should be made to Frank Ruhlen, Assistant in Agriculture. Labor blanks will be furnished upon request.

THE EMERSON McMILLIN LABORATORY.

THESES OF THE CLASS OF 1900 OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

JOHN THOMAS DALLAS, ...Hopedale, Ohio.
"The History and Efficiency of Creaming Devices."

VERNON HAYES DAVIS,.................................... Byesville, Ohio.
"A Study of the Properties of Clays as Related to Soil Structure."

ELMER OTTERBEIN FIPPIN,............................Briggsdale, Ohio.
"An Inquiry into the Causes of Plant Growth."

CASSIUS CLAY HAYDEN,....................................Oakdale, Ohio.
"The Effect of Rainfall upon Soil Moisture."

MERRITT FINLEY MILLER,................................Ridpath, Ohio.
"The Evolution and Comparison of Reaping Machines."

ARTHUR GILLETT MCCALL,...............................McGraw, Ohio.
"A Study of Ohio Spiders."

CHARLES NAPOLEON MOONEY,..............................Milan, Ohio.
"An Inquiry into Injury to Fruit Trees during Winter of 1898–99."

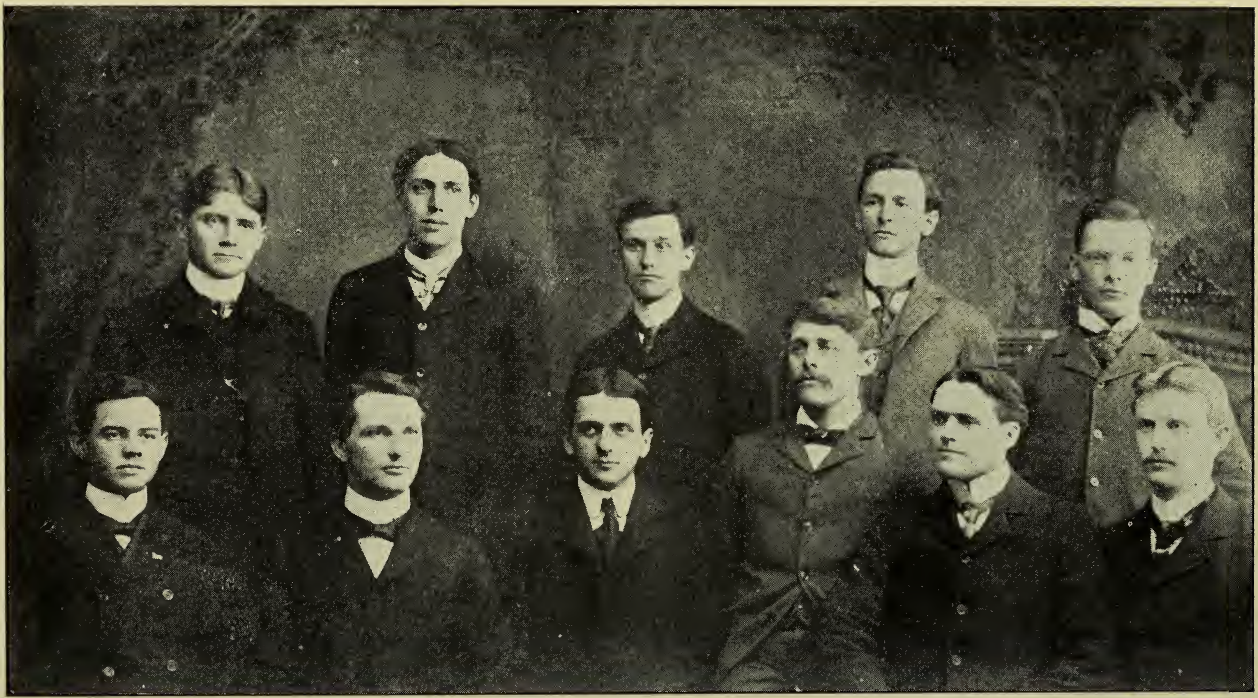
FREELAN WILBERT SCHAEFFER, ...Spanker, Ohio.

CHARLES BENJAMIN STEWARD,...............................Marcy, Ohio.
"The Economy of Different Nutritive Ratios for Milch Cows."

FREDRIC WELLINGTON TAYLOR,............ ....Wooster, Ohio.
"The Evolution of the Plow."

FREDERIC JARED TYLER, (H. and F)..........................Perry, Ohio.
"Geophilous Plants of Ohio."

LAURA A. WEISMAN, (Dom. Sci.).............. ....Columbus, Ohio.
"Plans, Interior Views and Specifications of a Model Residence."



M. F. Miller F. J. Tyler C, N. Mooney C. C. Hayden I. W. Schaeffer
E. O. Lippin F. W. Taylor V. H. Davis C. B. Steward A. J. McCall J. T. Dallas

SENIOR CLASS IN AGRICULTURE AND IN HORTICULTURE AND FORESTRY.

ENROLLMENT IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCES 1899-1900

Abbott, George Franklin	Agr.	First	Medina
Abbott, Carl B.	Agr.	Third	Medina
Adcock, James G.	Agr. S.	First	Webb Summit
Armstrong, Edgar Manley	Dairying		Zanesville
Armstrong, Clara	Dom. Sci.	Third	Columbus
Arnold, Frank Washington	Agr.	First	Somerset
Atherton, William Thomas	Agr.	First	Carrollton
Baldwin, Ethel Florence	Dom. Sci.	First	Columbus
Bauman, Christian William	Dairying		Axtel
Beale, Harry Glenn	Agr.	Second	Mt. Sterling
Beatty, Madge	Dom. Sci.	First	Columbus
Beneker, Robert Edgar	Agr.	First	Cincinnati
Boggs, Howard Shannon	Agr. S.	Second	Kingston
Bratton, Alice May	Dom. Sci.	Third	Columbus
Breckenridge, William Kemper	Agr. S.	Second	Watertown
Breese, Clarence Nye	Agr. S.	Second	Lima
Bugby, Morris O.	Agr.	First	Kingsville
Bundy, Lyman Edmund	Special		Colerain
Byers, William Gerald	Agr. S.	Second	Lilly Chapel
Cahill, Verrill W.	Agr. S.	First	Tiro
Candy, Ella Belle	Special		Columbus
Carey, Nathan Harold	Dairying		Gurneyville
Church, James Scott	Agr.	First	Palmyra
Clark, Herman Alfred	H. & F.	Second	Medina
Clark, Ollie Dwight	Agr. S.	First	Wheaton
Clawson, Lucy Blanche	Dom.Sci. S	Second	Okeana
Coberly, Edward D.	Agr. S.	First	Georgesville
Conradi, Albert Frederick	Agr.	Second	New Bremen
Cotton, Edwin Charles	H. & F.	Second	Elyria
Cotton, George Washington	Dairying		Elyria
Crabb, James Byel	Agr. S.	Second	Mt. Sterling
Crawford, Mary B.	Dom Sci.	Third	Blaine
Creamer, Jesse Carlton	Agr. S.	First	Jeffersonville
Dallas, John Thomas	Agr.	Fourth	Pine Valley
Davis, Carrie Samantha	Special		Rio Grande
Davis, Ella Augusta	Dom. Sci.	First	Constantia
Davis, Vernon Hayes	Agr.	Fourth	Byesville
Day, Albert Edward	Agr. S.	Second	Mt. Carmel
Demorest, Herbert Russell	Agr.	Second	Columbus
Derby, Florence	Special		Columbus
Dixon, Eva Nicholson	Dom. S	Third	Columbus
Dock, Norton	Agr. S.	First	Cincinnati

Dresbach, Mary	Dom. Sci.	Third	Columbus
Dunlap, Frederick	Special		Chillicothe
Dunn, Hattie Franklin	Special		Columbus
Everett, William Russell	Dairying		Gnadenhutten
Ewart, John Weston	Dairying		Mogadore
Ferguson, Ollie	Agr.	First	Steubenville
Finlay, Annetta Jane	Dom. Sci.	Second	Keene
Fippin, Elmer Otterbein	Agr.	Fourth	Galloway
Fisher, Milo Eddison	Agr. S.	First	Chili
Flory, Charles Henry	H. & F.	First	Arcanum
Foster, Emma Warwick	Dom. Sci. S	Second	Higbys
Foster, John Cook, Jr	Agr. S.	Second	Higbys
Foster, Michael Leander	Dairying		Axtel
Frank, John Nicholas	Agr. S.	First	North Amherst
Galehouse, David William	Agr.	Third	Doylestown
Gibson, Herbert R	Agr. S.	Second	Camp Chase
Gilmore, William Henry	Graduate		Millersport
Gladding, Maynard Marcus	Agr.	First	Windsor
Graber, Christian	Dairying		Burton
Hamilton, Frank Edward	Agr.	Second	Brownsville
Hanna, Charles Mitchell	Agr. S.	First	Tiro
Hard, Jesse M	Agr-	First	Olentangy
Harper, Merritt	Agr.	Third	Grove City
Hatfield, Clifford Christian	Agr. S.	First	Lebanon
Hayden, Cassius Clay	Agr.	Fourth	Oakdale
Heller, John	Dairying		Ona, W. Va.
Henderson, Harry Harold	Agr. S.	First	West Cairo
Hess, Flora Louise	Dom. Sci.	First	North Columbus
Hill, Mamie Faye	Dom. Sci.	Second	Columbus
Halloway, Carrie	Dom. Sci.	Second	Columbus
Holt, David C	Dairying		Galloway
Hoover, Clarence Boal	Agr.	First	Venice
Hoover, Edna Brown	Dom. Sci.	First	Columbus
Hunt, Jay Horatio	Dairying		Columbus
Hyatt, James Vernon	Agr. S.	First	Augusta
Immell, Woodford Elias	Agr. S.	Second	Chillicothe
Innis, Byron Schofield	Agr. S.	First	Wagram
Irwin, Arthur Milton	Agr.	First	Parkman
James, Harold Francis	H. & F.	First	Pekin, China
Jennings, Otto Emery	Agr.	Second	Olena
Jones, Lloyd	Agr. S.	Second	Columbus
Karrer, Carl	Agr. S.	First	Dublin
Kaylor, Rollie Washington	Dairying		Bellefontaine
Kelley, William Lester	Agr.	Second	Newark
Kinney, Charles C	Dairying		Yellow Springs
Klein, Edith May	Special		Columbus
Kynett, Albert Gardner	Dairying		Colliers, W. Va.
Ladrach, John J	Dairying		Birmingham
Langdon, Elmer	Agr. S.	First	Sabina
Lanman, Faith Robinson	Dom. Sci.	First	Columbus
Lindley, Lulu	Dom. Sci.	Second	Fredericktown
Linsley, Frank Preston	Agr.	First	Gallipolis
Long, Frank C	Agr.	First	West Sonora
Mallow, Harry Campbell	Agr. S.	First	Washington, C. H.
Marshall, Ida	Dom. Sci.	Second	Hemlock
Mason, Arthur Devillo	Agr.	Third	Wellington
Mears, William Holt	Agr. S.	First	Moscow
Meek, Eunice	Dom. Sci. S	Second	Afton

Meiche, Louis	Agr. S.	Second	North Royalton
Mesloh, Harry Smith	Agr. S.	First	New Bremen
Miller, Merritt Finley	Agr.	Fourth	Ridpath
Miller, Maynard Everett, B. Sc.	Dairying		Dodgeville
Miner, Charles Austin	Agr. S.	Second	Bristolville
Mooney, Charles Napoleon	Agr.	Fourth	Milan
Murray, Edna Earl	Dom. Sci.	Third	Columbus
McAlister, Lee Paden	Agr.	First	Thornville
McCall, Arthur Gillet	Agr.	Fourth	McGraw
McClelland, Chester Arthur	Agr.	First	Terrace Park
McKinley, Ira Esdras	Agr. S.	First	Vaughnsville
McMahon, Mary Gertrude	Dom. Sci. S	First	Columbus
McOwen, James Jr	H. & F.	Third	Ovid
Neill, Nelson Prentice	Agr.	Third	Venice
Nelson, Fred Burgess	Agr. S.	First	Coe Ridge
Nelson, Fred Walker	Agr. S.	First	Salem Center
Nelson, Homer Thrall	Agr. S.	First	Selma
Nichol, Gertrude	Special		Columbus
Oliver, Charley Ray.	Dairying		Portersville, Pa.
Orton, Louise Taft	Special		Columbus
Osborn, Alice	Dom. Sci. S.	Second	Cadiz
Osborn, Harry Lester	Agr.	First	Chardon
Oswald, Rudolph	Dairying		Aurora
Perry, Elma Brooks	Dom. Sci.	Third	Troy
Perry, John Cole	Agr.	Third	Columbia Station
Peters, Frances Bush	Dom. Sci. S	First	Columbus
Poindexter, Charles Cardoga	Agr.	First	Parkersburg, W. Va.
Postle, Stuart A.	Dairying		Camp Chase
Richards, Don Arthur	Dairying		Medina
Riley, Valeria	Dom. Sci.	Third	Washington C. H.
Ruhlen, La Mott	Agr.	First	Plain City
Schaeffer, Freelan Wilbert	Agr.	Third	Spanker
Scott, Edith Clare	Dom. Sci.	First	Mt. Pleasant
Senter, Pearl	Special		Shepard
Shaffer, Jesse	Dairying		Black Lick
Shaw, Edward Lee	Agr.	Second	Newark
Sheldon, Helen Griswold	Special		Shepard
Shepard, Allen Day	Dairying		Conneaut
Sigrist, John Larkum	Agr.	Third	Congress
Skiles, Blanche Gertrude	Dom. Sci.	Third	Shelby
Smith, Wilford B.	Agr.	First	Chesterhill
Snyder, Addison Hogan	Agr.	Third	Tacoma
Stahl, Price Ewing	Agr. S.	First	Jewett
Steward, Charles Benjamin	Agr.	Fourth	Marcy
Stiers, Thomas Vernon	Agr. S.	First	Zasleki
Sumner, Mrs. R. M.	Special		Columbus
Taylor, Frederick Wellington	Agr.	Fourth	Wooster
Thomas, Elmer Ellsworth	Dairying		Newark
Thompson, Jesse Eugene	Agr. S.	First	Bristolville
Trowbridge, Warner Wesley	Agr. S.	Second	Painesville
Tyler, Fred J.	H & F.	Fourth	Perry
Walker, William	Agr.	First	West Canaan
Wampler, Milton Eugene	Agr. S.	First	Dayton
Weisman, Laura Anna	Dom. Sci.	Fourth	Columbus
Wheeler, Leroy Thomas	Agr. S.	First	Chillicothe
Williamson, Frances Glade	Dom. Sci. S	First	Columbus
Wolfe, La Verne Florence	Dom. Sci. S	First	Lucas

LIST OF ALUMNI AND OF THE EX-STUDENTS OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE SINCE 1892.

Abbott, Arthur G., B. Sc. (Agr)	1899*	Kearney, Neb., Foreman H. S. National Dairy Farm.
Adams, Walter Lewis	†(1897-1898)	
Adams, Judson Jay	(1896-1897)	
Allen, Glen Lloyd	(1898-1899)	Washington C. H., Farmer
Alpeter, John Edward	(1896-1897)	Winfield, O., Farmer
Alvord, Lewis Upton	(1896-1897)	
Anderson, J. B	(1897-1899)	Jewett, O., Teacher
Andress, Henry	(1898-1899)	Birmingham, O.
Aten, Franklin Stewart	(1895-1897)	Nevada, O., Farmer
Auld, Jay Mc	1897	Iberia, O., Farmer
Aumend, Manuel Grant	(1891-1894)	Delta, O., Farmer and Teacher
Ayers, Samuel Dana	(1892-1895)	Orwell, O., Creamery Manager
Baer, Philip, Jr., B. Sc. (Agr.)	1897	Canal Dover, O., Dairy Farmer
Baker, William Hollister, B. (Agr.)	1892	Hazelhurst, Mo., Stock Farmer
Baldwin, Linus R	(1893-1896)	Tiger, O., Farmer
Ball, F. C	(1895-1896)	Mt. Vernon, O., Farmer
Barker, Asbury Pletch	(1895-1897)	New Lexington, O., Farmer
Baughman, Chas. Francis	(1893-1894)	
Beal, John William	(1894-1895)	Dresden, O., Farmer
Beard, Ralph H	(1895-1896)	Bucyrus, O., Farmer
Beard, Alexander Wilson	(1897-1898)	New Buffalo, O., Creamery Operator
Beardsley, Ensign Newton	(1895-1896)	Greenford, O., Farmer
Beattie, Emma Miles	(1896-1897)	
Beattie, Lena Leota	(1896-1897)	Selma, Ala., Teacher in Knox Academy
Beattie, James Herbert	(1898-1899)	Zanesville, O., Student New Concord, O.
Beattie, Rosalie Mae	(1898-1899)	Zanesville, O., Student New Concord, O.
Beattie, William Renick, B. Sc. (Hort.)	1894	M. Sc., 1897, Washington, D. C., Assistant in Section of Seed and Plant Introduction, Division of Botany, U. S. Department of Agriculture.
Beem, Alda Morgan	(1895-1896)	

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* Indicates student completed four years' course in the year and with the degree mentioned.

† Indicates student was in college the year or years mentioned, but did not graduate.

Beer, James Anderson	(1895-1896)	Ashland, O., Law Student O. S. U.
Belden, Herbert L.	(1897-1899)	Middlefield, O., Employed by Ohio Pail Company.
Bell, Nelson Hugh	(1891-1892)	
Bently, William P., B. Agr.	1885	(B. A., 1890; M. A., 1893, Bethany College.) China Missionary, 15 Miller Road, Shanghai, China.
Betts, Adelbert Hayes	(1898-1899)	Kinsman, O., Cheesemaker
Birdsall, James Warner	(1893-1896)	
Birney, Worthington H.	(1892-1893)	Tappan, O., Farmer
Blackley, Helen	(1898-1899)	1361Hunter St., Columbus, O., Student at Columbus Kindergarten Training School
Bloomfield, Lloyd M., B. Agr.	1891	Marlboro, O., Farmer
Bogue, Earnest E., B. Sc. (H. & F.)	1894	M. Sc. 1896, Stillwater, Okla., Professor of Botany and Horticulture.
Bone, John Hayes, B. Sc.	1893	B. Sc. (Agr.), 1896, New Richmond, Ind., Farmer.
Bowsher, Harry Dittmar	(1896-1897)	Buckland, O., Stock Farmer
Bragg, Putnam Benjamin	(1897-1898)	Marietta, O., Dairyman
Brandt, James McPherson	(1893-1894)	510 and 511 Johnston Bldg., Cincinnati, O., Lawyer.
Brechbill, B. H.	(1895-1896)	Bridgehampton, N. Y., Buttermaker
Brinker, Thomas W.	(1897-1899)	Chatham, O., Farmer
Britton, John Carr, B. Sc. (Agr.)	1898	Buffalo, N. Y., Florist
Brown, Sumner J.	(1896-1897)	
Brown, Alma Marie	(1896-1897)	
Brown, Aaron S.	(1892-1893)	Circleville, O., Farmer
Brown, Alfred P.	(1896-1897)	Dillon, Mont., Ranchman and Stock Raiser.
Bryson, Julia Leona	(1897-1898)	
Burkett, Chas. William, B. Sc. (Agr.)	1895	M. Sc, 1898, Durham, N. H., Professor of Agriculture, New Hampshire State College.
Caldwell, Robert Smith	(1894-1895)	
Cameron, John H.	(1894-1895)	
Canfield, C. H., D. V. M., 1897.	(1893-1894)	Kansas City, Mo., Meat Inspector
Carl, Harry W.	(1898-1899)	
Cass, Roscoe Faskin	(1896-1897)	Maumee, O., Dairyman
Clawson, Clarence A., B. Sc. (Agr.)	1899	Okeana, O., Veterinary Student O. S. U.
Closson, Clayton D.	(1896-1897)	Bisbee, Ariz., Druggist
Clevenger, Charles	(1897-1899)	Fletcher, O., Student O. S. U.
Cline Walter E.	(1893-1895)	Gurneyville, O., Farmer
Coates, Eisle	(1898-1899)	
Coddington, Alva LeRoy	(1894-1896)	Conover, O., Farmer
Coe, William D.	(1895-1896)	Washington C. H., O., Creamery Manager
Comstock, Allen L.	(1897-1899)	Harveysburg, O., Creamery Operator
Condit, Lorenzo S.	(1894-1895)	Condit, O., Dairy Farmer
Conkle, Harry	(1895-1896)	Warsaw, O., Dairyman
Covell, Jay Innam	(1896-1897)	
Craig, Moses, B. Sc.	1889	M. Sc., 1890, Cornell; M. Sc. (H. & F.), 1896, O. S. U. Auburn, Ala., Assistant in Horticulture Experiment Station.

Cranz, Eugene Franz ....(1892-1893).......................... Ira, O., Farmer

Cromley, Alvah Miller ....(1892-1895)........Circleville, O., Prescription Clerk

Crowner, Delbert Alonzo, B. Sc. (Agr.) 1896..Wellsville, N. Y., Instructor in Buttermaking, O. S. U.

Cunningham, John F., B. Sc. (H. & F.) 1897..M. Sc., 1899, Cleveland, O., Assistant Editor Ohio Farmer.

Daniels, John Thomas ....(1892-1894)......... ....

Darling, Everett Clyde ....(1894-1896).......... .... Nellie, O., Farmer

Davenport, Chas. A...... ......(1892-1895)..Chillicothe, O., Employe of B. & O. S. W. Railway.

Decker, Melville Clarence ......(1894-1895)....... .... Findlay, O., Farmer

Dennington, Wilbur Stanley.....(1898-1899)............... Dechard, Pa., Buttermaker

Devol, William Stowe, B. Agr........1886......................... Riverside, Cal.

Dille, Chas. Wallace ....(1896-1897)..Mentor, O., Law Student in Cleveland

Ditto, Theodore Walter ....(1896-1898)...................... Delphos, O., Farmer

Dodds, Austin Everett ....(1894-1895).......... ....

Dovel, Boyton ....(1898-1899)..Pickerington, O., Student Bliss Business College, Columbus, O.

Duncan, Donley ....(1896-1897)...................... Ludlow, O., Farmer

Dunham, Alonzo H.... ....(1894-1896)..Dayton, O., Physician Dayton State Hospital.

Dunlap, Renwick W., B. Sc. (Agr.)....1895......................... Kingston, Farmer

Dunlap, John Hyde.... ....(1895-1896)................ Williamsport, O., Farmer

Durbin, Theodore ....(1897-1898).............. Danville, O., Cheesemaker

Durkee, Ray H.... ....(1896-1897)............ North Eaton, O., Buttermaker

Dyar, Harry Spencer ....(1896-1897).................. Marietta, O., Engineer

Egbert, Knott C., B. Agr............1890..Yainax, Oregon, Supt. Indian Boarding School.

Ensign, Ernest Harry ....(1898-1899)............. Parkman, O., Creameryman

Erf, Oscar, B. Sc. (Agr.)..............1899..Champaign, Ill., Instructor in Dairying, University of Illinois.

Evans, R. W.... ....(1894-1895).......... ....

Evans, William B.... ....(1892-1894)................. Newark, O., Lumberman

Everett, S. J............ ......(1898-1899)........ ...... Parkman, O., Cheesemaker

Falknor, E. A...................(1897-1898)..Troy, O., Yard Clerk, C., C., C & St. L. R. R.

Farnsworth, Delmar J...........(1892-1893)......Waterville, O., Hardware Merchant

Fawett, Arthur J.... ....(1893-1894)..Akron, O., Agent Metropolitan Life Insurance Company (Ind. Dept.).

Fearn, Nellie ....(1897-1898).......... ....

Femur, Frank C.... ....(1891-1892).......... ....

Finley, Thomas K.... ....(1897-1899)...................... Keene, O., Farmer

Fischer, Walter, B. Sc.............. 1897 ....

Fischer, Julius H. R. Paul. B. Agr....1897..Manhattan, Kansas, Professor of Veterinary Medicine.

Fisher, Margaret Willmina....................1293 Hunter St., Columbus, O., Stenographer for S. H. Black & Co.

Fisher, Elmer E........ ....(1897-1898)...............Chili, Ind., 32d Neb. Reg.

Fitts, Rollin ....(1894-1898)..............New California, O., Farmer

Flickinger, George A., B. Sc. (Agr.)..1898..Knoxville, Tenn., Dairyman at University of Tennessee.

Florence, George	(1891-1892)	Fox, O., Farmer and Stock Raiser
Foster, Fred May	(1894-1896)	
Forsythe, John B	(1895-1896)	Rushsylvania, O., Creamery Operator
Fox, Charles	(1897-1898)	
Frazier, S. H	(1898-1899)	Nashport, O., Farmer
Garity, Benjamin Joseph	(1896-1897)	Mt. Vernon, O., Dairyman
Garner, Clarence Harris	(1897-1898)	Chicago, Ill., Union Stock Yards
Gearing, B. L	(1897-1898)	Bessie Mine, Telluride, Colo.
Geckler, Chas. F	(1891-1894)	
Gephart, Geo. Washington	(1894-1895)	Miamisburg, O., Farmer
Getz, F. L	(1893-1894)	
Gilmore, Walter Hayes	(1896-1899)	Columbus, O., Student
Gillmore, Wm. Henry, B. Sc. (Agr.)	1899	Post-Graduate Student O. S. U. and Farmer.
Givens, David Albert	(1895-1897)	Glen Flora, Chippewa Co., Wis., Lumberman and Farmer.
Givens, Warren Whittier	(1897-1898)	DeKalb, Ill., Farmer
Givens, Warren Hayes	(1897-1898)	Springfield, Ill., Dairyman
Glathart, Harry Aaron	(1891-1892)	Findlay, O., Civil Engineer
Glock, Edward Hoover	(1896-1897)	
Goddard, Harford Bishop	(1896-1898)	Dunham, O., Farmer
Goodwin, Clare T	(1896-1897)	Columbia Station, O., Farmer
Gove, Charles Frederick	(1897-1898)	Springfield, Ill., Dairyman
Graham, John Edward	(1893-1894)	
Grant, A. M	(1892-1893)	
Greenlee, Edward Hood	(1896-1897)	Bridgeport, O. Died.
Greenlee, James Ross	(1898-1899)	Lansing, O., Farmer
Gregory, William Moody	(1897-1898)	
Griffith, W. I	(1898-1899)	
Grimes, Charles Wilson	(1897-1898)	New Britain, Conn., Creamery Operator
Grisier, Darcy B	(1894-1895)	Fayette, O., Groceryman
Haines, Edna Esther	(1897-1898)	
Hamilton, Henry Hodge	(1898-1899)	Barnesville, O., Creamery Operator
Hamilton, William Clarence	(1892-1894)	Barnesville, O., Farmer
Harn, George U., Jr	(1898-1899)	194 Wilson Ave., Columbus, O., Clerk for U. S. Weather Bureau.
Harris, Melvin J	(1897-1898)	Garrettsville, O., Farmer
Harter, John Hoyt	(1892-1894)	Box 149, Delaware, O., Farmer
Harry Willis Grant	(1896-1897)	Delitz, Pa., Creamery Operator
Hawley, Wilbur	(1896 1897)	1499 East Main St., Columbus, O., Motorman.
Heath, Harry Roger	(1898-1899)	Big Horn, Wyo., Creamery Operator
Henderson, Frank A	(1894-1897)	McConnelsville, O. Died Sept. 27, 1898
Hershey, B. W	(1897-1899)	Easton, O., Stock Farmer
Hill, Walter Centennial	(1894-1895)	405 East Town St., Columbus, O., Student at Starling Medical College.
Hill, I. F. Reynolds, B. Sc. (H. & F.)	1896	Toledo, O., Paymaster for Woolson Spice Co.
Hiltner, Philip	(1894-1895)	Landeck, O., Farmer
Hine, James Stewart, B. Sc (H. & F.)	1893	Columbus, O., Assistant in Entomology at the Ohio State University.

Hoff, Walter A.	(1894-1897)	Bucyrus, O., Telephone Inspector
Holderman, George Leland	(1891-1892)	
Holmes, Ernest	(1898-1899)	Morrow, O., Employed by French Bros.' Dairy Company.
Hood, Sherman, B. Sc. (H. & F.)	1894	Meander, O., Market Gardener
Hoover, Louis C.	(1898-1899)	Ira P. O., Farmer
Horst, David H.	(1897-1898)	Winesburg, O., Farmer and Dairyman
Houston, Morris	(1897-1898)	Box 47, Orchard, O., Farmer
Hoyt, Corydon Albert	(1891-1892)	Rock, Creek, O., Farmer
Huff, Haines	(1894-1896)	4310 Beech Hill Ave., Cincinnati, O., Mail Clerk on B. & O. S. W. R. R.
Hugenholtz, Paul	(1897-1898)	Bussum, Netherlands, Bookkeeper
Hunt, Mary	(1897-1898)	Died, December, 1898
Hunter, William, Jr.	(1892-1893)	Woodfield, O.
Hulburt, H. C.	(1896-197)	
Imes, Marion, B. Sc. (Agr.)	1899	Durham, N. H., Student New Hampshire State College.
Irvine, James	(1898-1899)	Richmond, O., Farmer
Jackson, Walter Charles	(1898-1899)	Almeda, N. Y., Carpenter
Janton, Alexander	(1896-1897)	
Johnson, Lisle M.	(1895-1896)	Tiger, O., Farmer
Johnston, Frederick S., B. Sc. (Agr.)	1899	Durham, N. H., Assistant Professor of Agriculture New Hampshire State College.
Jones, J. Lewis	(1898-1899)	Penfield, O., Farmer
Jones, Hosea Henderson	(1893-1894)	Radnor, O., Farmer
Joyce, Mary Gertrude	(1897-1898)	78 Smith Place, Columbus, O.
Karnes, John Miller	(1894-1895)	New Petersburg, O., Farmer
Kelley, Galeria May Belle	(1898-1899)	
Kellough, Jesse P.	(1894-1895)	
Kent, Mary	(1898-1899)	
Kerr, Franklin H.	(1892-1893,1895-1896)	Monclova, O., Farmer
Kiddle, F. W.	(1895-1896)	W. Williamsfield, O., Farmer
King, J. C.	(1898-1899)	
King, John Henry	(1895-1896)	Racoon Island, O., Farmer
Kirk, Edward Cassius	(1898-1899)	Ashland, O., Farmer
Kockers, Peter J.	(1893-1894)	
Kohls, Frank Joseph	(1892-1893)	
Kolbe, Lawrence Albert	(1897-1899)	North Amherst, O., Farmer
Kuenzli, James Arthur	(1893-1894)	Upper Sandusky, O., Farmer
Ladrach, Lewis F.	(1898-1899)	Ragersville, O., Cheesemaker
Lakin, Arthur	(1896-1897)	Station A, Columbus, O., Dairy Farmer
La Rue, Almon	(1891-1892)	
Laughlin, Joseph Gibson	(1893-1894)	Catawba, O., Student O. W. U
Lawrence, Mortimer William	(1891-1894)	Cleveland O., Vice President of Lawrence Publishing Company.
Lee, Vernon W.	(1892-1893)	Orland, O., Farmer and Stock Breeder
Leonard, W. Elmer	(1891-1895)	Athens, O., Dairyman
Leyda, Manton Odell	(1894-1895)	Pattersonville, O., Dairy Farmer
Liles, Frederick William	(1897-1899)	Farmer and Stock Raiser, Collins, O.

Long, Frederick Pontius	(1897-1899)	Kingston, O., Farm Superintendent
Loomis, Humbert H.	(1891-1894, 1896-1899)	Deerfield, O., Farm Employe
Lutz, Ray	(1893-1895)	Fremont, O., Farmer
Mackey, James Earle	(1897-1898)	Richfield, O., Farmer
Manville, Herbert Emery	(1896-1897)	Lybrand, O., Del. Co., School Teacher
Marion, Walter J.	(1897-1899)	141 E. Duncan St., Columbus, O., Employed by Livingston Seed Company.
Martin, John R.	(1891-1892)	Windfall, O., Farmer
Mayers, W. L.	(1898-1899)	
Mays, James Wesley	(1893-1894, 1896-1897)	
McClellan, Arthur	(1897-1899)	Cable, O., Cheesemaker
McClelland, Kirk, B. Sc. (Agr.)	1898	Andover, O., Farmer
McClure, W. W.	(1898-1899)	Union City, Ind., Farmer
McCormick, Earl Leander	(1896-1897)	Columbus, O., Salesman for Bancroft & Sheldon, Columbus, O.
McCullough, Clark W.	(1895-1897)	Steubenville, O., Farmer
McCullough, William Cleland	(1892-1893)	Bucyrus, O., Lawyer
McDaniels, Fred Kimball	(1896-1897)	Atzcapotzalco, Hidalgo el Rosario, Mexico, Dairyman.
McFarlane, Ellis	(1897-1898)	New Bedford, Pa., Gardener and Horticulturist.
McHenry, J. B.	(1895-1896)	Vineyard Hill, O., School Teacher
McKay, Weldon Nickerson	(1897-1899)	New Burlington, O., Farmer
McLaughlin, Henry	(1893-1894)	
McLaughlin, Harrold	(1898-1899)	
McLaughlin, Anis	(1898-1899)	
McManis, A. T.	(1893-1894)	1341 Dorr St., Toledo, O., Salesman Market Gardener.
McNaughten, Stewart Alexander	(1895-1896)	
McOwen, Thomas	((1897-1899)	Ovid, O., Arts Student, O. S. U.
Mecham, Van Floran	(1891-1892)	Atwater, O., Farmer
Mendenhall, Eugene Warren	(1893-1896)	Eugene, O., Attorney-at-Law
Mendenhall, John L.	(1894-1895)	Westland, O., Farmer
Mercer, Worley Deforest	(1891-1892)	Duncan's Falls, O., Physician
Mergler, Jacob C.	(1898-1899)	Marietta, O., Student Marietta College
Merwine, Edson A.	(1896-1897)	Woodview, O., Dairy Farmer
Metcalf, Walter Charles	(1898-1899)	Temple, O., Farmer
Millar, Michael Seymour	(1895-1896)	
Miller, Henry Alexander	(1898-1899)	Gypsum, O., Farmer
Miller, Carl James, B. Sc. (Agr.)	1898	Franklin, O., Farmer
Milliman, Prescott	(1893-1895)	Milan, O., Farmer
Mills, W. C., B. Sc. (H. & F.)	1898	Curator Archaeological Collection, Ohio State University, Columbus.
Minnich, Otto William	(1897-1898)	Larch Street, Box 3, Springfield, O., Dairyman.
Minnich, F. J.	(1897-1898)	North Amherst, O., Creamery Operator
Montgomery, Frank	(1898-1899)	
Moorehead, Robert Henderson	(1896-1897)	
Morley, Ida Mae	(1896-1897)	
Morrow, John W.	(1893-1894)	Bogart, O. Died Oct. 1898

Morrow, Clarence G.	(1895-1896)	
Mowry, Edward Philip	(1896-1897)	Monroeville, O., Star Creamery Manager
Mull, Ernest Clinton	(1898-1899)	
Murphy, Farrah C.	(1894-1896)	Sunbury, O., Farmer
Murray, J. B.	(1898-1899)	Fenfield, O., Cheesemaker
Neale, Alvin S.	(1891-1892	Rock, O., Farmer
Nettleton, Albert Warren, B. Sc. (Agr.)	1898	Medina, O., Farmer
Nettleton, Edward	(1898-1899)	Medina, O., Farmer
Newton, Sheldon Watrous	(1898-1899)	Boardman, O., Farmer
Nichelson, Charles	(1892-1893)	Plattsburg, O., Farmer
Nidy, A. V.	(1896-1897)	
Notman, Walter	(1894-1895)	Deerfield, O., Farmer and Cheesemaker
Ohlemacher, John Jacob	(1897-1898)	Prouts Station, O., Farmer
Owens, Walter Raleigh	(1897-1898)	Schrumm, O., Buttermaker
Palmer, Mary Ella	(1897-1898)	2383 N. High St., Columbus, O.
Palmer, Jay	(1897-1899)	Penfield, O., Farm Employe
Parks, William C.	(1896-1897)	
Parrett, Noyes Marvin	(1892-1893)	Madison Mills, O., Farmer
Parsons, John Strong	(1896-1898)	Rootstown, O., Farmer
Partridge, B. M.	(1897-1898)	
Patterson, Mrs. George T.	(1897-1898)	
Patterson, William Adolphus	(1894-1895)	Kensingston, O. Died July 12,1898
Patton, Robert L.	(1894-1895)	
Pemberton, Harvey Canmon	(1894-1895)	
Pennybacker, Marion Stone	(1891-1892)	Purcell, Indian Territory, Traveling Salesman.
Persing, Matthias James	(1894-1896)	Clyde, O., Truck and Fruit Grower
Pfarr, Philip Lewis, B. Sc. (Agr)	1896	
Phillips, John C.	(1896-1898)	Bath, O., Cheesemaker
Phillips, John Howard	(1898-1899)	Centerburg, O. Died fall of 1898
Phillips, Josiah M.	(1891-1893)	Defiance, O., Farmer
Phinney, Chas. Amos	(1892-1893)	
Pierce, Benjamin M.	(1897-1899)	Dover, N. H., Hobart Farm Employe
Plumb, C. S.	(1895-1896)	Lafayette, Ind., Professor of Agriculture, Purdue University.
Pollock, Charles Hamilton	(1897-1898)	Mill Village, Pa., Dairy Farmer
Postle, Carlton David	(1898-1899)	Student, Arts College, O. S. U.
Postle, Florence	(1897-1899)	Camp Chase, O.
Powell, Earnest	(1891-1892)	Van Wert, O., Farmer
Price, William R.	(1896-1897)	
Price, Homer C., B. Sc. (Agr.)	1897	M. Sc., 1899; Assistant Horticulturist O. S. U., Columbus, O.
Priest, Frederick	(1892-1893)	Newark, O., Doctor of Veterinary Medicine.
Pugh, Stanley D.	(1891-1892)	
Randolph, Frank Monroe	(1894-1896)	Somerset, O., Farmer
Rane, Frank William, B. Agr.	1891	M. Sc., Cornell, 1892; Durham, N. H., Professor of Horticulture, New Hampshire State College.
Rarick, Murray M., B. Sc. (Agr.)	1896	Jacksontown, O., Physician

Ream, Earl S.... ....(1897-1898)............... Kidds Store, Ky., Farmer

Reece, Chas. Elwood ....(1894-1896)..............Bucyrus, O., Stock Farmer

Reed, Oscar W.... ....(1894-1895).........Lebanon, O., Creamery Operator

Reed, Jasper Robert ....(1896-1897)..... Blanchester, O., Creamery Operator

Reppert, Alda Cora ....(1898-1899)....... ....

Reno, Mell Lewis ....(1898-1899)..Hill P. O., Mercer Co., Pa., Creamery Operator.

Rexroth, Royal A..............(1898-1899).................. Bucyrus, O., Farmer

Rice, Mabel Elise ....(1898-1899)........105 Hubbard Ave., Columbus, O.

Richardson, Hamilton Hutchinson, B. Agr., 1892....... ...... Brooklyn, O., Farmer

Ridinger, John G.... ....(1897-1899)............Kalida, O. Killed June, 1899

Ridings, Jesse Owen ....(1893-1894).........Goshen, O., Teacher and Farmer

Riggs, Earnest J., B. Sc., (H. & F.)..1895..M. Sc., Raccoon Island, O., Farmer and Fruit Grower.

Roadarmer, Harry ....(1897-1898)......... ....

Robb, Wyman Speer ....(1897-1898).....New Concord, O., Creamery Operator

Roberts, John L. .....1894-1895, 1897-1899)..............Saxony, Ind., Dairy Farmer

Rodegeb Charles A. ....(1895-1896)............... ....

Rogers, John Wesley ....(1895-1896)...... ....

Rogers, Dwight Eugene ....(1895-1896)..Grafton, O., Engaged by Elyria Stone Co.

Rood, Venious Ardie ....(1893-1895)............ ... .Larue, O., Farmer

Roscoe, Frank B. ....(1893-1895)..... ... ...Greenwich, O., Farmer

Ross, Amos Loren ....(1897-1898)..Oneida, O., Traveling for Correspondence School, Springfield, Mass.

Rubins, Frank ....(1896-1897)..... .... Kenton, O., Dairyman

Ruhlen, Frank, B. Sc. (Agr.).........1896..Columbus, O., Assistant in Agriculture, Ohio State University.

Rutan, Maida (Mrs. Bullard) ....(1894-1895)........ ....Mechanicsburg, O.

Rutan, David ....(1897-1898)...... ....

Rutan, Benjamin Milton ....(1893-1895)..Marysville, O., Creamery Proprietor and Operator.

Sanders, B. C. ....(1897-1898)...............Deep River, Iowa, Farmer

Saum, John Lincoln ....(1891-1892)...................Antwerp, O., Farmer

Sayre, Eliza Morgan ....(1898-1899)...... ....

Schaadt, Martin ....(1894-1895)........Centerville, Kansas, Creameryman

Schroeder, Glen Thomas ....(1895-1896)..McKees Rocks, Pa., P. & L. E. R. R., Locomotive Machinist.

Scott, Ernest, B. Sc. (Agr.).........1897.........Columbus, O., Student O. M. U.

Scott, Howard F. ....(1896-1897).................Fair Haven, O., Farmer

Scroggie, James Hugh..........(1894-1895)..West View, O., Principal of Public Schools and Farmer.

Sharp, Edmond Maxwell ....(1896-1897)......................Akron, O., Student

Shaw, F. C. ....(1893-1894)......... ....

Shaw, James C. ....(1892-1894)..Newark, O., Farmer and Stock Breeder

Shellabarger, Marley R., B. Sc. (Agr.) 1897...................Garland, O., Farmer

Shippee, Henry George ....(1898-1899)......... ....

Shriver, Sarah Luella ....(1896-1897)...... ....

Shumaker, Bertram ....(1896-1897)..LeRoy, O., Employe for Cottage Creamery Co., Cleveland, O.

Slater, Burr H. ....(1892-1893)........ ....

Smith, William David	(1897-1898)	Buffalo, O., Buttermaker for Beard Dairy Company.
Smith, Elisha	(1897-1898)	Greensburg, O., Assistant in Cheesemaking, Ohio State University.
Smith, Leon D.	(1898-1899)	Silo, O., Cheesemaker
Solether, C. F.	(1898-1899)	Jerry City, O., Farmer
Spencer, Silas McLaren	(1897-1898)	Wakefield, Md., Creamery Manager
Spiers, Charles E.	(1893-1895)	Atwater, O., Farmer
Stimmel, John Russell Jr.	(1896-1897)	Reeces, O., Farmer
Stoughton, Charles Peters	(1897-1898)	Males Center, N. Y., Dairy Farmer
Stump, Mrs. Franklin Pierce	(1893-1894)	Convoy, O.
Stump, Franklin Pierce	B. Agr., 1892	Convoy, O., Framer
Sweet, Smith E.	(1894-1896)	Mesopotamia, O., Farmer
Taylor, Merrill S.	(1892-1894)	Urbana, O., Farmer
Taylor, Everett Burne	(1897-1898)	
Thompson, Jay	(1896-1897)	
Thompson, Benjamin Sells	(1898-1899)	Mansfield, O., Hardware Merchant
Thompson, Edith Leontine	(1898-1899)	Huron, O.
Thompson, Joseph J.	(1894-1895)	Lebanon, O., Piano-tuner
Thornburg, C. E.	(1897-1898)	Jonesboro, Ind., Gardener and Fruit Grower.
Thorne, Bertram H.	(1891-1892)	Wooster, O., Vegeable Forcing and Florist
Titus, Clarence H.	(1894-1896)	
Twitchell, Lee	(1897-1898)	Mansfield, O., Farmer and Orchardist
Uncapher, J. D.	(1897-1899)	Marion, O., Farmer
Uncapher, William H.	(1895-1897)	Marion, O., Farmer
Vandament, Orin	(1898-1899)	Hamersville, O., Teacher
Vermillion, Arthur H.	(1894-1895)	Martin's Ferry, O., Box 21, Farmer
Vickery, John B.	(1898-1899)	Saxony, Ind., Dairyman
Vine, Oliver Jacob,	(1894-1895)	Lakeport, Cal., Creamery Manager and Buttermaker.
Wald, Clarence Wm., B. Sc. (H. & F.)	1898	Durham, N. H., Assistant in Horticulture.
Wagner, W. Dow	(1892-1893)	Kenton, O., Farmer
Walker, Wallace J.	(1892-1893)	Emerson, O., died of Fever in Spanish-American war at Puerto Rico, 1899.
Ward, Harry William	(1898-1899)	
Ward, Benjamin Nelson	(1891-1892)	
Ward, Philip Emerson	(1893-1895)	Willoughby, O., Supt. of Schools
Warden, Leonard C., B. Sc (H. & F.)	1899	42 Jackson Boulevard, Atlantic Building, Chicago, Ill., Manufacturer of Train Dispatch Sheets.
Weinman, George Henry	(1891-1892)	
Wells, James Russell	(1891-1892, 1894-1895)	Weston, W. Va., Farmer
West, Richard Sedgwick	(1892-1893)	
Westwater, W. G.	(1893-1895)	429 East Broad St., Columbus, O., Clerk for Westwater's Queensware Store.
Whiley, Thomas Boyce	(1896-1897)	Lancaster, O., Farmer
Whipple, Charles Mantanion	(1897-1898)	Columbia Station, O., Dairy Farmer
White Maurice	(1894-1895)	Rix's Mills, O., Farmer

Whitehead, Henry H.	(1895-1897)	General Delivery, Columbus, Dairyman
Whitehead, Albert	(1895-1896)	Lexington, Ky., Student Kentucky State College.
Whiting, Charles	(1894-1896)	Omaha, Neb., Shoe Merchant
Whiting, Roy E.	(1897-1898)	Austinburg, O., Farmer
Whitman, Charles Henry	(1898-1899)	Doylestown, O., Creameryman
Whitney, Charles Albert	(1895-1896)	
Wilkin, W. W.	(1897-1898)	
Williams, Lee	(1891-1892)	Pataskala, O., Druggist
Willson, Gilbert Carl	(1893-1894)	925 Mohawk St., Columbus, O
Wilson, J. W.	(1895-1896)	New Concord, O., Buttermaker
Winkler, Herbert G.	(1894-1896)	Hanging Rock, O., Market Gardener
Winspeare, Joseph Agar	(1893-1895)	Vickers, O., Dairy Farmer
Wise, Cyrus Newton	(1891-1892)	
Withoft, Clarence Warren	(1893-1894)	
Ziegler, Juan M.	(1892-1894)	

The University Bulletins are issued monthly, at least six months in each year.
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OHIO STATE UNIVERSITY

CATALOGUE OF THE

COLLEGE OF AGRICULTURE

AND

DOMESTIC SCIENCE

1901-1902

COLUMBUS
PUBLISHED BY THE UNIVERSITY

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1901-1902

"One of the wisest things this government ever did was to make ample provision for the great agricultural institutions in this land. We now have more than half a hundred of them to testify to the worth and sagacity of the Congress of these United States."—*President McKinley.*

COLUMBUS
Published by the University
May, 1901

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DAYS AND DATES.

1901.

Entrance Examinations (8 A. M.)	Monday,	September 16.
First Term begins—Registration Day	Tuesday,	September 17.
Lectures and Class-work begin	Wednesday,	September 18.
President's Annual Address	Friday,	September 20.
Meeting of Trustees	Wednesday,	September 25.
Thanksgiving Recess	Thursday, Friday,	November 28. November 29.
Latest Date for Filing Thesis Subjects	Saturday,	December 14.
First Term ends	Wednesday,	December 18.
Christmas Vacation.		

1902.

Second Term begins—Registration Day	Thursday,	January 2.
University Day	Saturday,	February 22.
Second Term ends	Friday,	April 4.
Spring Recess.		
Third Term begins—Registration Day	Wednesday,	April 9.
Meeting of Trustees	Wednesday,	April 9.
Field Day—Athletic Association	Saturday,	May 17.
Senior Vacation begins	Saturday,	May 24.
Competitive Drill, Cadet Battalion	Saturday,	May 24.
Memorial Day	Friday,	May 30.
Latest Date for Presenting Thesis	Saturday,	June 7.
Final Examinations	Monday to Friday,	June 9. June 13.
Latest Date for Filing bound copy of Thesis	Friday,	June 13.
Baccalaureate Sermon	Sunday,	June 15.
Entrance Examinations (8 A. M..)	Monday, Tuesday,	June 16. June 17.
Class Day	Monday,	June 16.
Meeting of Trustees	Tuesday,	June 17.
Alumni Day	Tuesday,	June 17.
COMMENCEMENT	Wednesday,	June 18.
Summer Vacation		
Entrance Examinations (8 A. M.)	Monday,	September 22.
First Term begins—Registration Day	Tuesday,	September 23.
Lectures and Class-work begin	Wednesday,	September 24.
Annual Address by the President (11 A. M.)	Friday,	September 26.
Meeting of Trustees.	Wednesday,	September 24.

BOARD OF TRUSTEES.

1900—1901.

		Term Expires.
JOHN T. MACK	Sandusky	May 13, 1901.
LUCIUS B. WING	Newark	" 1902.
THOMAS J. GODFREY	Celina	" 1903.
J. McLAIN SMITH	Dayton	" 1904.
PAUL JONES	Columbus	" 1905.
OSCAR T. CORSON	Columbus	" 1906.
DAVID M. MASSIE	Chillicothe	" 1907.

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OSCAR T. CORSON	Vice President.
ALEXIS COPE	Secretary.
L. F. KIESEWETTER.	Treasurer.

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FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	OSCAR T. CORSON	JOHN T. MACK

FACULTY OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

REV. WILLIAM OXLEY THOMPSON, D. D., LL. D..........................University Grounds
President of the University.

THOMAS FORSYTH HUNT, M. Sc.—Dean..................................188 West Tenth Avenue
Professor of Agriculture.

WILLIAM RANE LAZENBY, M. Agr.—Secretary..................348 West Eighth Avenue
Professor of Horticulture and Forestry.

HENRY ADAM WEBER, Ph. D...1342 Forsythe Avenue
Professor of Agricultural Chemistry.

BENJAMIN FRANKLIN THOMAS, Ph. D...University Grounds
Professor of Physics.

GEORGE WELLS KNIGHT, Ph. D...University Grounds
Professor of American History and Political Science.

ROSSER DANIEL BOHANNAN, B. Sc., C. E., E. M......Sixteenth Avenue and Indianola
Professor of Mathematics.

ERNEST AUGUST EGGERS..190 West Eleventh Avenue
Professor of Germanic Languages and Literatures.

ALBERT MARTIN BLEILE, M. D...218 King Avenue
Professor of Anatomy and Physiology.

WILLIAM ASHBROOK KELLERMAN, Ph. D....................175 West Eleventh Avenue
Professor of Botany.

BENJAMIN LESTER BOWEN, Ph. D..775 East Broad Street
Professor of Romance Languages and Literatures.

JOSEPH VILLIERS DENNEY, A. B..230 West Tenth Avenue
Professor of Rhetoric and the English Language.

ALLEN CAMPBELL BARROWS, A. M., D. D...........................85 West Tenth Avenue
Professor of English Language.

WILLIAM THOMAS MAGRUDER, M. E...191 King Avenue
Professor of Mechanical Engineering.

J. P. GORDY, Ph. D., LL. D..350 West Seventh Avenue
Professor of Education.

DAVID STUART WHITE, D. V. M.......................West Fifth Avenue (near Arlington)
Professor of Veterinary Medicine.

HERBERT OSBORN, M. Sc.................485 King Avenue
Professor of Zoology and Entomology.

FRANK EDWIN SANBORN, S. B.................380 West Eighth Avenue
Professor and Director of the Department of Industrial Arts.

JOSEPH NELSON BRADFORD, M. E.................54 West Tenth Avenue
Professor of Drawing.

HENRY CURWEN LORD, B. Sc., F. R. A. S.................University Grounds
Professor of Astronomy and Director of the Emerson McMillin Observatory.

FREDERICK CONVERSE CLARK, A. M., Ph. D.................1634 Neil Avenue
Professor of Economics and Sociology.

WILLIAM DAVID GIBBS, M. Sc.................234 West Tenth Avenue
Professor of Agronomy.

PAUL FISCHER, B. Agr., D. V. M.................8[illegible]0 Franklin Avenue
Professor of Pathological Anatomy.

PERLA G. BOWMAN.................The St. Anna
Associate Professor of Domestic Science; in charge of the Department of Domestic Economy

EMBURY ASBURY HITCHCOCK, M. E.................380 West Eighth Avenue
Associate Professor of Experimental Engineering.

CHARLES WALTER MESLOH, A. M.................High Street and Eleventh Avenue
Associate Professor of German.

CHARLES SMITH PROSSER, M. S.................1362 Highland Street
Associate Professor of Historical Geology.

JOHN ADAMS BOWNOCKER, D. Sc.................1594 Neil Avenue
Associate Professor of Inorganic Geology.

JOHN WRIGHT DECKER, B. Agr.................239 West Eighth Avenue
Associate Professor of Dairying.

CORNELIA PORTER SOUTHER.................1356 Neil Avenue
Associate Professor of Domestic Art.

WILLIAM LUCIUS GRAVES, A. M.................1313 Forsythe Avenue
Assistant Professor of Rhetoric.

THOMAS EWING FRENCH, M. E.................1458 Worthington Street
Assistant Professor of Drawing.

CHARLES BRADFIELD MORREY, A. B., M. D.................86 King Avenue
Assistant Professor of Anatomy and Physiology.

CHARLES LINCOLN ARNOLD, M. Sc.................328 West Eighth Avenue
Assistant Professor of Mathematics.

CHARLES A. BRUCE, B. A.................234 West Tenth Avenue
Assistant Professor of Romance Languages.

JAMES STEWART HINE, B. Sc.................26 West Fourth Avenue
Assistant Professor of Entomology.

JOHN H. SCHAFFNER, A. M., M. S.......40 West Tenth Avenue
Assistant Professor of Botany.

C. B. FREDERICK, V, S.......81 West Frambes Avenue
Assistant Professor of Veterinary Medicine.

GEORGE H. McKNIGHT, PH. D.......312 West Seventh Avenue
Assistant Professor of Rhetoric and English Language.

HERRICK C. ALLEN, LL. B.......275 East Gay Street
Assistant Professor of Public Speaking.

FRANCIS LEROY LANDACRE, B. A.......1332 Highland Street
Assistant Professor of Zoology.

J. WARREN SMITH, B. Sc.......55 Cleveland Avenue
Lecturer on Meteorology.

FREDERICK EDWARD KESTER, M. E. in E. E.......1473 Neil Avenue
Instructor in Physics.

A. H. TUTTLE, B. A.......215 West Tenth Avenue
Instructor in American History and Political Science.

WILLIAM H. RENCK.......910 West Rich Street
Instructor in Pattern Making and Founding.

CHARLES P. CROWE.......971 Highland Street
Instructor in Forging.

BURT BIDWELL HERRICK.......167 Tenth Avenue
Assistant in Cheese Making.

THOMAS KENYON LEWIS, B. Sc.......1293 Dennison Avenue
Assistant in Drawing.

ALBERT EARL VINSON.......134 West Ninth Avenue
Assistant in Agricultural Chemistry.

FRANK RUHLEN, B. Sc.......North Dormitory
Assistant in Agriculture.

SILAS MARTIN.......1269 Dennison Avenue
Assistant in Drawing.

HOMER C. PRICE, M. Sc.......University Grounds
Assistant in Horticulture and Forestry.

FRANCIS M. HAMILTON. B. A.......1355 North High Street
Assistant in Philosophy and Education.

DELBERT ALONZO CROWNER, B. Sc.......152 West Woodruff Avenue
Assistant in Butter Making.

FRED J. TYLER, B. Sc.......43 East Ninth Avenue
Assistant in Botany.

MELVIN DRESBACH, M. Sc.......236 West Eighth Avenue
Fellow in Anatomy and Physiology.

WILLIAM E. BOHN, B. A., M. A.......................................43 West Eighth Avenue
Fellow in Rhetoric.

HARRIET GRISWOLD BURR, A. B...1454 Highland Street
Fellow in Botany.

SELDON F. SMYSER, B. PH...1451 Worthington Street
Fellow in Economics.

WALTER FISCHER, B. SC...810 Franklin Avenue
Fellow in Botany.

ROYAL ALBERT ABBOTT, B. PH...1364 Forsythe Avenue
Fellow in Rhetoric.

F. K. LUKE, M. S...Botanical Hall
Florist.

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OLIVE B. JONES...53 Eleventh Avenue
Librarian.

CHRISTOPHER P. LINHART, M. D............................Gymnasium—"The Vendome"
Professor of Physical Education and Director of the Gymnasium.

CAPTAIN GEORGE L. CONVERSE, U. S. A.................................398 Oak Street
Professor of Military Science and Tactics.

CLARA MAUD BERRYMAN...175 West Eleventh Avenue
Associate Professor of Physical Education.

A WINTER SCENE ON THE CAMPUS

THE UNIVERSITY.

IT should be noted that the Ohio State University is divided into six colleges as follows :

The College of Agriculture and Domestic Science.
The College of Arts, Philosophy and Science.
The College of Engineering.
The College of Law.
The College of Pharmacy.
The College of Veterinary Medicine.

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Science ; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, Bachelor of Science in Industrial Arts, and Bachelor of Science in Chemistry or in Metallurgy ; in the Course of Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

HISTORY.

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each state an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefit of the act of endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect, and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the College and the election of a Faculty of instruction and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878, the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the Institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education, and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY.

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy River, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

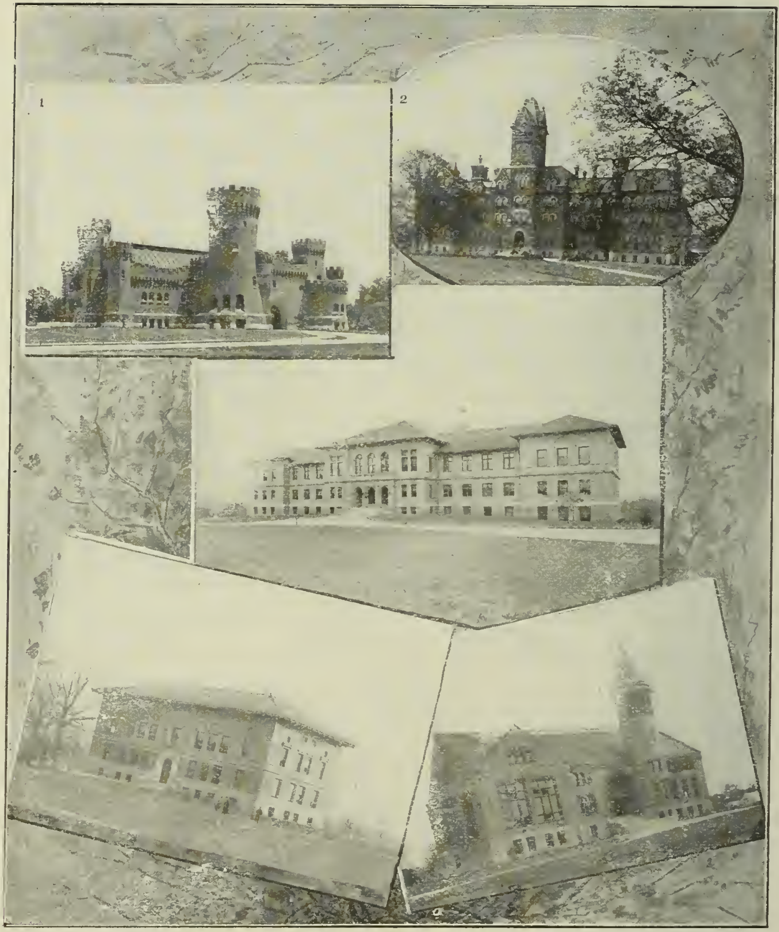
The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High Street or the Neil Avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High Street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall and the Dormitories, will find the Neil Avenue cars more convenient.

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars.

The buildings of special interest to the College of Agriculture and Domestic Science are Townshend Hall, Horticultural Hall, Veterinary Hospital, Hayes Hall, Botanical Hall, Biological Hall, Orton Hall (Geological building; contains also the Library), and the Armory and Gymnasium.

The University now has over one hundred instructors and thirty-eight departments of study, offers thirty distinct courses, all but one of which require two or more years for completion. Six of these courses are offered by the College of Agriculture and Domestic Science and are described in this catalogue.



ARMORY AND GYMNASIUM
BIOLOGICAL HALL

TOWNSEND HALL

UNIVERSITY HALL
ORTON HALL

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

The College of Agriculture and Domestic Science offers six distinct courses of study:

1. *A four years' Course in Agriculture.*
2. *A four years' Course in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science.*
6. *A two years' Course in Domestic Science.*

THE COURSE IN AGRICULTURE.

About one-half of the students who have graduated from this course have engaged in farming while most of the others have become professors, instructors or experimenters in the agricultural colleges and experiment stations of the country. Still larger numbers, who have pursued the course for two or three years, have become successful farmers or farm superintendents. The course in Agriculture serves as a preparation of either class equally well.

The officers of the College recognize the danger of a too special or technical training of under-graduate students in a subject having such a wide range and one requiring for its successful prosecution such breadth of view. A careful examination of the course as outlined on page 14 will show that about one-third of the time of the student during the four years is or may be devoted to Language, (English and foreign), History and Economics; about one-third to pure science, and one-third to technical or professional training. Electives in the senior year allow for some variation in this regard.

The Course in Agriculture is one of a number of regular four year collegiate courses in the University. This one is designed not only to make specially trained agriculturists, but also educated men. The course presupposes that a young man has had a High School training or its equivalent and that he has had the training in farm matters that necessarily comes to a young man who has lived on a farm. It supplements this training but does not displace it. The technical training in this course consists in those matters which years of experience in teaching have shown are either lacking or most necessary. Young men from the cities are entering this course, as they should do if they expect to engage in agricultural pursuits, but it should be understood that the Course in Agriculture does not, except incidentally, supply that training in farm matters which comes from actual life upon the farm. Such a course could be readily planned but it would waste the valuable time of nine-tenths of the students who now enter the course. A fuller understanding of the course may be obtained by comparing the outline below with the departmental courses of study beginning on page 25. It will be seen that the general education and training is broad, and liberal and that the technical or professional training is thorough and exact.

No man or woman is thoroughly well educated until he or she has been taught both to do and to think. Both faculties are necessary and each assists the other. Experience and reason, however, teach that the students who enter the Course in Agriculture have been better trained in doing than in thinking. With them manual training is not as necessary as an educational factor as with students from the cities. On the other hand, special emphasis is laid on training the faculties of observation, reason and judgment. It should be understood, however, that the laboratory methods and facilities are most thorough and complete in all scientific and technical courses, giving a training which is impossible to obtain merely from books.

The Course in Agriculture leads to the degree of Bachelor of Science in Agriculture.

OUTLINE OF THE COURSE IN AGRICULTURE.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR.

REQUIRED.

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1) Principles.	5	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5
Botany (6) Physiological.	5	Botany (7) Physiological and Economic.	5	Botany (8) Economic Botany and Vegetable Pathology.	5
Drawing (10)	2				
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
		Shopwork (1)	3		
Zoology (1) Invertebrate.	3	Zoology (1) Invertebrate.	3	Zoology (1) Vertebrate.	3
Cadet Service (men)*		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical Training (women)		Hygiene and Physical Training (women)		Hygiene and Physical Training (women)	

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* A rule of the Board of Trustees requires each male student (except student in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR.

REQUIRED.

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agriculture (8) Breeds of Live Stock.	4	Agriculture (9) Principles of Breeding	4	Agriculture (10) Stock Feeding	4
Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
Horticulture (1) Elements.	4	Shopwork (2)	3	Horticulture (3) Plant Propagation.	4
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology.	2	Zoology (4) Economic Entomology	2	Zoology (4) Economic Entomology	2
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical Training (women)		Hygiene and Physical Training (women)		Hygiene and Physical Training (women)	

THIRD YEAR.

REQUIRED.

Agriculture (11) Farm Equipment.	4	Agriculture (12) Soils.	4	Agriculture (13) Crops.	4
				Drawing (16)	3
†French (1) Elementary, or †German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4
Geology (2) General.	5	Geology (3) Economics.	3	Astronomy (3) Meteorology.	2
Veterin'y Medicine (28) Anatomy.	5	Veterin'y Medicine (29) General Pathology.	5	Veterin'y Medicine (30) Special Pathology.	5

FOURTH YEAR.

REQUIRED.

Agriculture (14) Animal Mechanics.	4	Agriculture (15) Dairy.	4	Agriculture (16) Rural Economics.	4
History (1) U. S. Political.	4	History (1) U. S. Political.	2	Economics (1) Political Economy.	4
		Economics (1) Political Economy.	2		
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Eight hours a week through the year, including two for thesis chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

FOURTH YEAR.

(*Beginning September, 1902.*)

REQUIRED.

History (1) U. S. Political.	4	History (1) U. S. Political.	2	Economics (1) Political Economy.	4
		Economics (1) Political Economy.	2		
Thesis	2	Thesis	2	Thesis	2

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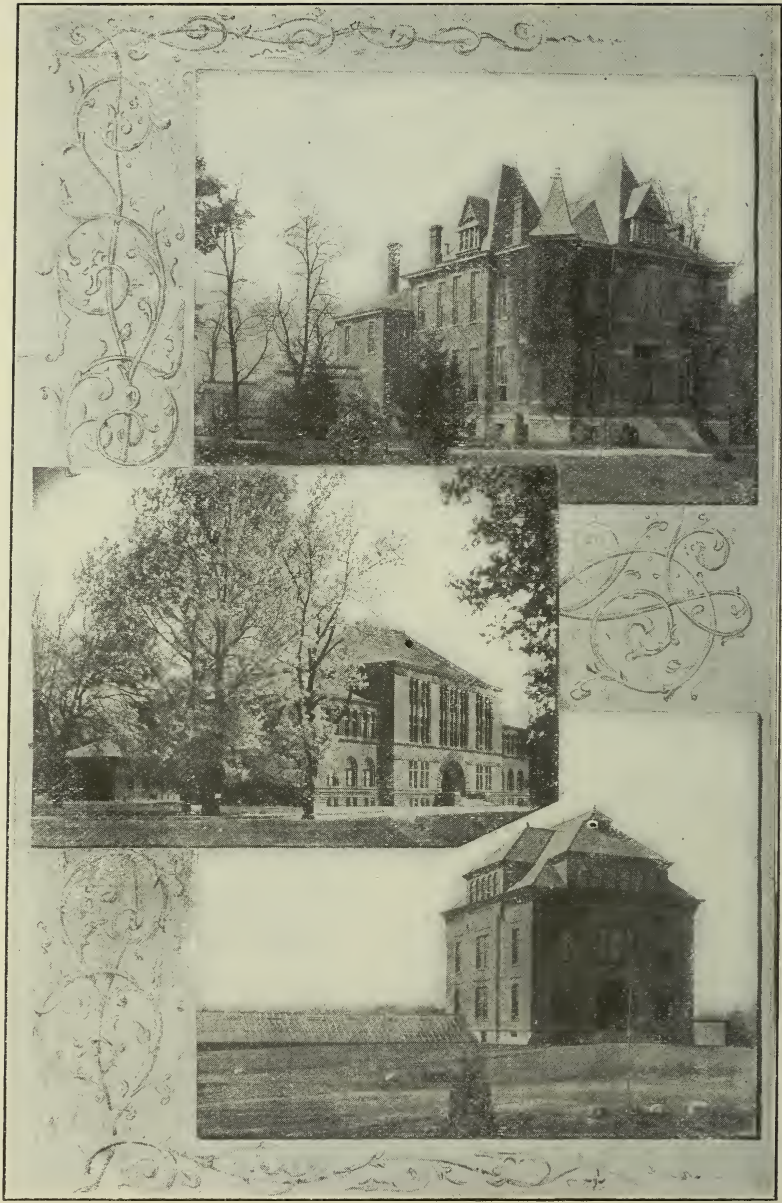
† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.



BOTANICAL HALL

HAYES HALL

HORTICULTURAL HALL

Eight hours per week through the year; chosen from any of the following courses:

First Term.	Credit hours	Second Term.	Credit hours	Third Term.	Credit hours
Agriculture (14) Animal Mechanics.	4	Agriculture (18) Zootechny	4	Agriculture (16) Rural Economics.	4
Agriculture (19) Rural Engineering.	4	Agriculture (20) Agronomy.	4	Agriculture (21) Agronomy.	4
Agriculture (22) Dairying.	4	Agriculture (15) Dairying.	4	Agriculture (25) Dairying.	4
*Agricultural Chemistry (6) Laboratory.	4	Ag'l Chemistry (6) Laboratory.	4	Ag'l Chemistry (6) Laboratory.	4
Veterinary Medicine (24)	3	Veterinary Medicine (18)	3	Veterinary Medicine (18)	3

ELECTIVE.

Four hours a week through the year chosen from any of the courses given in any of the Colleges of the University upon which the student is qualified to enter, except the College of Law.

THE COURSE IN HORTICULTURE AND FORESTRY.

Horticulture and Forestry are rapidly developing arts. Their successful practice, like that of other arts, is largely dependent upon science.

Chemistry, Physics, Botany, Geology, Entomology and other sciences, are the natural basis of a sound, practical knowledge of those things with which the fruit culturist, gardener, nurseryman and forester have to deal.

While science may teach much regarding the origin and growth of plants, it does not teach how to select varieties, how to propagate, transplant, cultivate, fertilize, prune, or what is even more essential, how to harvest and market the product to the best advantage.

All the science in the world, while it will signally help, cannot of itself make a good fruit-culturist, florist or landscape gardener.

Science and Art, theory and practice should go hand in hand.

This course was established to meet a growing demand for special training. It seeks to ground the student in those sciences that are fundamental, and to give a thorough drill in all methods of plant propagation and the more technical branches of horticulture and forestry.

The forcing of winter vegetables and the cultivation of the finer products of the garden and orchard are rapidly extending.

Commercial floriculture is developing with marked rapidity, and forestry is engaging the attention of the thoughtful as never before. For earnest, enterprising young men and women, horticulture and forestry in their various branches, offer as large a reward for intelligent, well directed effort as any other pursuit or profession.

The Course in Horticulture and Forestry leads to the degree of Bachelor of Science in Horticulture and Forestry.

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*In case a student intends to elect Agricultural Chemistry (6) 4 and Agriculture (19), (20), and (21) 4, he may elect Agricultural Chemistry 5 hours in place of Veterinary Medicine (28), (29), and (30) 5.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY.

FIRST YEAR.

REQUIRED.

First Term.	Credit hours	Second Term.	Credit hours	Third Term.	Credit hours
Agr'l Chemistry (1) Principles.	5	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5
Botany (6) Physiological.	5	Botany (7) Physiological, Economic.	5	Botany (8) Economic Botany. Vegetable Pathology.	5
Drawing (10)	2				
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
		Shopwork (1)	3		
Zoology (1) Invertebrate.	3	Zoology (1) Invertebrate.	3	Zoology (1) Vertebrate.	3
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical Training (women)		Hygiene and Physical Training (women)		Hygiene and Physical Training (women)	

SECOND YEAR

REQUIRED.

First Term.	Credit hours	Second Term.	Credit hours	Third Term.	Credit hours
Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
*French (1) Elementary, or *German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4
Horticulture (1) Elements.	4	Shopwork (2)	3	Horticulture (3) Plant Propagation.	4
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology.	2	Zoology (4) Economic Entomology.	2	Zoology (4) Economic Entomology.	2
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical Training (women)		Hygiene and Physical Training (women)		Hygiene and Physical Training (women)	

THIRD YEAR.

REQUIRED.

First Term.	Credit hours	Second Term.	Credit hours	Third Term.	Credit hours
Agriculture (11) Farm Equipment.	4	Agriculture (12) Soils.	4	Agriculture (13) Crops.	4
				Astronomy (3 Meteorology.	2
				Drawing (16)	3
French (2) German (4)	4	French (2) or German (4)	4	French (2) or German (4)	4
Geology (2) General.	5	Geology (5) General.	3	Zoology (4) Economic Entomology	3
Horticulture (5) Varieties of Fruit.	4	Horticulture (6) Principles of Fruit Culture.	4	Horticulture (7) Small Fruits and Spraying.	4

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*Where credit is received for Elementary French or German, French (2) 4 or German (4) 4 is required.

FOURTH YEAR.

REQUIRED.

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Horticulture (8) Elements of Floriculture.	2	Horticulture (9) Commercial Floriculture.	2	Horticulture (10) Home Floriculture.	2
Horticulture (11) Arboriculture.	2	Horticulture (12) Forestry and Sylviculture.	2	Horticulture (13) Landscape Gardening.	2
History (1) U. S. Political.	4	History (1) U. S. Political.	2	Economics (1) U. S. Political.	4
		Economics (1) Political Economy.	2		
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Eight hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THE SHORT COURSE IN AGRICULTURE.

The Short Course in Agriculture is a two years course, the first year of which is made up largely of studies preparatory either to the second year of the short course or the first year of the four years' course in Agriculture or in Horticulture and Forestry. While believing that the four years' course is none too long for the students who expect to engage in agricultural pursuits, yet it is recognized that there are many students whose circumstances make it impossible to take a four years' collegiate course in Agriculture, and yet who are anxious and would be greatly benefited by taking a less extended training for their life work.

This course is especially desirable for students of rather mature age. The Short Course in Agriculture also enables students who lack the training to enter the four years' course in Agriculture or in Horticulture and Forestry to make up in large part such deficiency. A considerable number of students in these advanced courses have formerly been students of the short course. This course contains as thorough instruction in Agriculture, Animal Industry, Dairying, Horticulture, (including Fruit Culture, Vegetable Gardening and Floriculture) and Forestry, Veterinary Medicine, Economic Entomology and the Sciences underlying these subjects as the time will admit. The second year contains optional work so that it is possible for students to specialize in Horticulture, Agriculture or Animal Industry and Dairying.

No degree is given on the completion of the Short Course in Agriculture but a certificate is issued stating fully the work done.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE.

FIRST YEAR.

REQUIRED

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1) Principles.	5	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5
Mathematics (1) Algebra.	5	Mathematics (3) Geometry.	5	Botany (1) Elementary,	5
Physics (1) Elementary.	5	Physics (1) Elementary.	5	Geology (1) Physiography.	5
Drawing (10) Mechanical.	2	Shopwork (1)	3	Physiology (2) General.	3
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR.

Not less than 15 hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8) Breeds of Live Stock.	4	Agriculture (9) Principles of Breeding	4	Agriculture (10) Stock Feeding.	4
Agriculture (11) Farm Equipment.	4	Agriculture (12) Soils.	4	Agriculture (13) Crops.	4
Agriculture (17) Milk Sanitation.	3	Agriculture (15) Dairy.	4	Zoology (7) Entomology.	3
Botany (6) Physiological.	5	Horticulture (2) Greenhouse Construction.	4	Horticulture (3) Plant Propagation.	4
Horticulture (1) Elements.	4	Shopwork (2)	3	Veterinary Medicine (30) Special Pathology.	5
Veterinary Medicine (28) Anatomy.	5	Veterinary Medicine (29) General Pathology.	5	Horticulture (7) Small Fruits and Spraying.	4
Horticulture (5) Varieties of Fruit.	4	Horticulture (6) Principles of Fruit Culture.	4		
		Physiology (6)	2		
Cadet Service.		Cadet Service.		Cadet Service.	

THE COURSE IN DAIRYING.

The Course in Dairying is established to meet the wants of those who have neither the time nor means for the above extended courses. It is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and contents of butter fat; the use and care of centrifugal separators and other dairy devices; the making of butter and cheese by the most improved methods; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock; the diseases of the cow; the chemistry of milk; the effect of bacteria and other agents upon milk and its products; the care of boilers and engines and similar subjects.

The Course in Dairying begins the first Thursday in January; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."

OUTLINE OF THE COURSE IN DAIRYING.

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations and laboratory work.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Four hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and Laboratory practice.

Veterinary Medicine (17). Diseases of the Cow. Three hours each week.

Mechanical Engineering (26). Steam Machinery. One hour each week.

THE COURSES IN DOMESTIC SCIENCE.

Four years ago, the Ohio State University recognized the demand for a broader education for young women, by introducing a course in Domestic Science.

The course was planned for no one class of women; not particularly for city or country girls, but in the hope that it might appeal to the most womanly side of all women. The desire was, and is, that by the practical and scientific study of home problems, women shall come to see more in household duties than a mere routine; to recognize that Economics has its foundation in domestic relations; that Art and Ethics have no higher use than to purify and beautify every day subjects; and that the history and literature of the past have direct bearing upon the present. In other words, the authorities believed that by practically applying the pure sciences and arts to domestic life, our women should be better able to build ideal homes and an ideal nation.

The studies pursued in the Department of Domestic Economy, while closely affiliated, naturally group themselves first about the sciences and later about the arts, and for convenience, such work as that with Foods, Sanitation and Hygiene, which directly makes demands along scientific lines, is classed as Domestic Science, and the work made possible by the wise acceptance of scientific laws, and by a general knowledge of the culture of past ages ; that is, the work of developing beautiful and harmonious surroundings, is classed as Domestic Art.

The College offers two courses in this work : A two years' course planned for those, who can give but a limited time to University training, and a four years' course, requiring a more advanced standing for entrance and leading to the degree of Bachelor of Science in Domestic Science.

As outlined farther on the lectures and laboratory work dealing particularly with Domestic Economy, require about one-fourth of the schedule time during the last three years of the long course; the first year and the remaining thirteen or fourteen hours required during each term of the second, third and fourth years, are devoted to allied University studies.

The equipment of the department has been carefully selected and is adequate for thorough and conscientious work. Every effort is being made to develop the course along broad and safe lines, and the large number of students who have chosen so new a course, and the unflagging interest evinced by them, betokens the success of the undertaking.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

REQUIRED.

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1) Principles.	5	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5
Botany (6) Physiological.	5	Botany (7) Physiological and Economic.	5	Botany (8) Economic Botany. Vegetable Pathology.	5
Drawing (1)	2	Drawing (1)	2	Drawing (1)	2
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
Zoology (1) Invertebrate.	3	Zoology (1) Invertebrate.	3	Zoology (1) Invertebrate.	3
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR.

REQUIRED.

Agr'l Chemistry (4) Laboratory.*	5	Agr'l Chemistry (4) Laboratory.*	5	Physiology (3) Chemical Physiology.	3
				Physiology (10)	2
Domestic Economy (1)	4	Domestic Economy (2)	4	Domestic Economy (3)	4
Drawing (10) Mechanical.	2	Drawing (15) Architectural.	2	Drawing (15) House Designing.	2
†French (1) Elementary, or †German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

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*Specific laboratory work will be provided for students in this course, where necessary.

†Where credit is received for elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

THIRD YEAR.

REQUIRED.

First Term.	Credit hours	Second Term.	Credit hours	Third Term.	Credit hours
Domestic Economy (4)	4	Domestic Economy (5)	4	Domestic Economy (6)	4
French (2) or German (4)	4	French (2) or German (4)	4	French (2) or German (4)	4
History (1) U. S. Political.	4	History (1) U. S. Political.	2	Economics (1) Political Economy.	4
Education (1)	3	Economics (1) Political Economy.	2	Education (1)	3
English Literature (1)	2	Education (1)	3	English Literature (1)	2
		English Literature (1)	2		

FOURTH YEAR.

REQUIRED.

Domestic Economy (7)	4	Domestic Economy (8)	4	Domestic Economy (9)	4
Horticulture (9) Elements of Floriculture.	2	Horticulture (10) Window Gardening.	2	Horticulture (11) Home Floriculture.	2
Thesis	2	Thesis	2	Thesis	2

ELECTIVE.

Eight hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

OUTLINE OF THE SHORT COURSE IN DOMESTIC SCIENCE.

FIRST YEAR.

REQUIRED.

Agr'l Chemistry (1) Principles.	5	Agr'l Chemistry (8) Organic.	5	Agr'l Chemistry (9) Applications.	5
Physics (1) Elementary.	5	Physics (1) Elementary.	5	Botany (1) Elementary.	5
French (1) or German (1)	4	French (1) or German (1)	4	French (1) or German (1)	4
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR.

REQUIRED

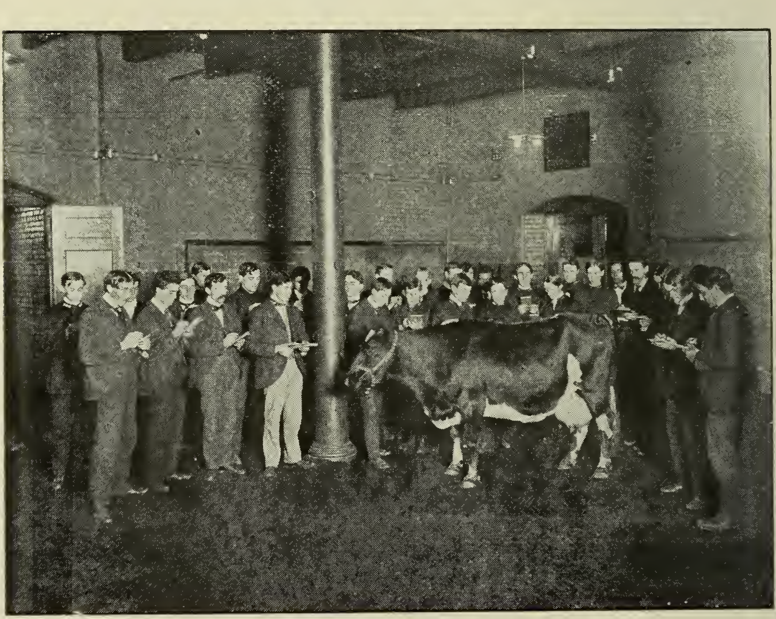
Domestic Economy (1)	4	Domestic Economy (2)	4	Domestic Economy (3)	4
Domestic Economy (4)	4	Domestic Economy (5)	4	Domestic Economy (6)	4
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to the conditions named under "Departments of Instruction":

Botany (6) Physiological.	5	Botany (7) Physiological and Economic.	5	Botany (8) Economic Botany, Vegetable Pathology.	5
Drawing (1)	2	Drawing (1)	2	Drawing (1)	2
Education (1)	3	Education (1)	3	Education (1)	3
English Literature (1)	2	English Literature (1)	2	English Literature (1)	2
Horticulture (9) Elements of Floriculture.	2	Horticulture (10) Window Gardening.	2	Horticulture (11) Home Floriculture.	2
Zoology (1) Invertebrate.	3	Zoology (1) Invertebrate.	3	Zoology (1) Vertebrate.	3

STUDENT WORK IN ANIMAL MECHANICS



LIVE STOCK JUDGING ROOM, TOWNSHEND HALL

THE DEPARTMENTS OFFERING INSTRUCTIONS IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

To determine relation and sequence of studies consult outlines of College courses beginning on page 14.

AGRICULTURE.

Townshend Hall.

ZOOTECHNY AND RURAL ECONOMICS

PROFESSOR HUNT, MR. RUHLEN.

8. **Breeds of Live Stock.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.

9. **Principles of Breeding.** Lectures and recitations three times a week upon the laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.

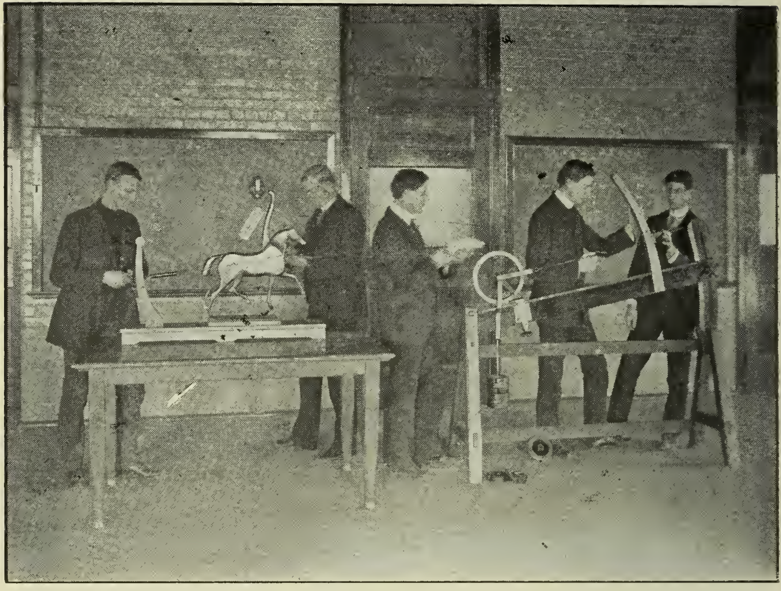
10. **Stock Feeding and Hygiene.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibilities, nutritive ratios and feeding standards. Third term.

14. **Animal Mechanics and Exterior.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.

18. **Stock Judging and Management.** Lectures and recitations twice a week. Practicums twice a week. Second term.

16. **History of Agriculture and Rural Economics.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.

5. **Dairy Farming.** Lectures twice a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second Term.



SOIL PHYSICS LABORATORY, TOWNSHEND HALL

LABORATORY WORK IN FARM EQUIPMENT

AGRONOMY AND FARM EQUIPMENT.

PROFESSOR GIBBS.

11. **Farm Equipment.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.

12. **Soils.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory, testing physical properties of several soils; determining the relation of soils to heat, moisture, air and fertilizers, and making mechanical analyses. Second term.

13. **Farm Crops.** Lectures and recitations three times a week upon the history, production, marketing, cultivation and harvesting of farm crops. Practicum once a week with growing and dried specimens of crops, including grasses, clovers and other forage crops. Third term.

19. **Agronomy.** Lectures and recitations twice a week on the physical properties of soils; the relation of soils to heat, air and moisture; the effect of fertilizers on soil structure and fertility; consideration of practical methods of tillage as effecting crop producing power of the soil. Laboratory and field experiments four hours each week. First term.

This course must be preceded by course (12).

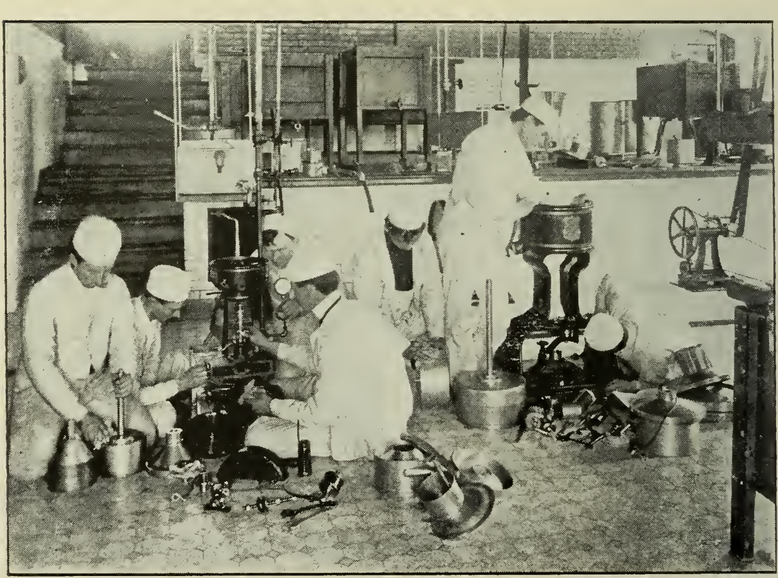
20. **Agronomy.** Lectures and recitations three times a week on: (a) The effect of climate, soil, and markets on the distribution and adaptation of farm crops in the United States. (b). The best method of crop production including a careful study of the details of field experimentation as set forth in experiment station bulletins and reports and the publications of the United States Department of Agriculture. (c) The consumption of farm crops. Practicum two hours each week. Second term.

This course must be preceded by course (13).

21. **Rural Engineering.** Lectures and recitations twice a week on: (a) Laying out the farm, including location of buildings and works; division of the farm into fields and yards, and the survey and measurement of the same. (b) Construction of buildings and works, including water supply, drains, sewage system, and roads. (c) The construction and use of farm machinery, including the application of mechanical principles in its structure and operation. Special attention will be given to comparisons and tests of various makes and kinds of farm machinery. Practicum four hours each week. Third term.

This course must be preceded by course (11).

DAIRY STUDENTS PRESSING THE CHEESE



ASSEMBLING SEPARATORS, TOWNSHEND HALL

DAIRYING.

Associate Professor Decker, Mr. Herrick, Mr. Crowner.

6. **Butter Making and Cheese Making.** Practice four half days each week in testing milk as to purity, contents of butter fat; in the use and care of centrifugal separators of different makes and other creamery and dairy devices; and in the making of butter and cheese by the most improved methods. In a word, all the essential operations of the creamery, factory, and home dairy, are repeatedly performed under the guidance and direction of the instructors until efficiency is attained. Neither is the student allowed to do this work by the rule of thumb. He is required to follow the milk from the time it enters the laboratory until the finished product leaves it, and to determine the points in the process where losses occur and the reason therefor. Second term.

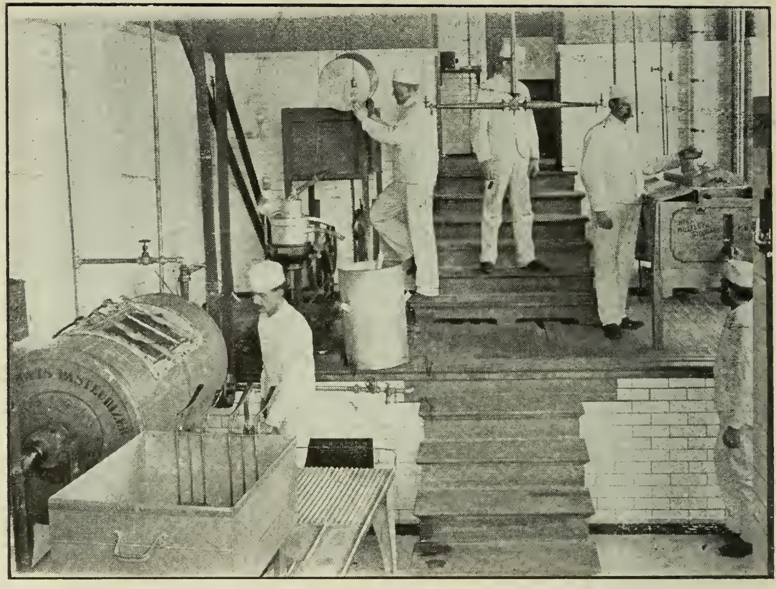
7. **Butter Making and Cheese Making.** Lectures and recitations on methods of creaming; factors which control the thoroughness of separation, either by gravity or centrifugal force; explanations of the continuous separation of cream; of ripening cream and testing for acidity; on the philosophy and methods of churning; the effect of temperature, acidity and richness of cream on time and completeness of churning; on the salting, working, packing and marketing of butter; on the fermentation of milk as affecting cheese making; on the curd test for detecting gassy or bad flavored milk; on the rennet test; on the cutting, heating, milling, salting and pressing of the curd; on the curing and shipping of cheese; on the judging of butter and cheese and the pasteurization of milk. There are also lectures upon the construction, equipment and operation of creameries, cheese factories, dairies and milk depots. Each student is required to draw a plan of a dairy, a creamery or a cheese factory and prepare the estimate for the equipment of the same. Two hours each week. Second term.

15. **Butter and Cheese Making.** Lectures twice a week. Laboratory practice twice each week. This course is the same as courses 6 and 7, except that less laboratory practice is taken. Second term.

17. **Milk Sanitation.** Three times a week. First term. Lectures on and laboratory practice in what constitutes pure dairy products, such as milk, butter and cheese, together with the common methods of adulteration, such as skimming, watering, preserving with chemicals injurious to health, and the effect of sanitary conditions on the keeping qualities and healthfulness of the same; pasteurization and other methods of preparing milk for sale.

22. **Butter and Cheese Making.** Lectures and laboratory work four times a week. First term.

25. **Butter and Cheese Making.** Lectures and laboratory work four times a week. Third term.



BOTTLING AND PASTEURIZING ROOM. TOWNSHEND HALL

AGRICULTURAL CHEMICAL LABORATORY, TOWNSHEND HALL

AGRICULTURAL CHEMITSRY

(Townshend Hall, Rooms 29, 35, 34 and 30.)

PROFESSOR WEBER, MR. VINSON.

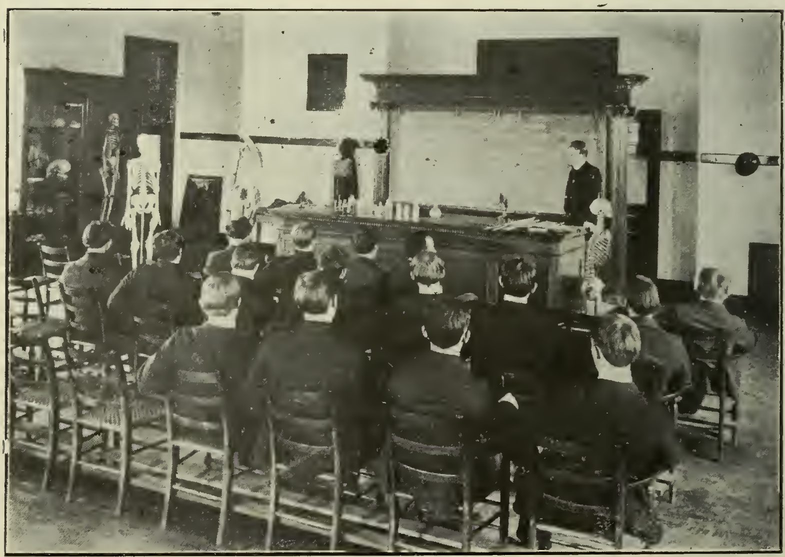
1. **Principles of Chemistry and Chemical Nomenclature.** Lectures and text-book for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.

8. **Organic Chemistry.** Lectures twice a week; laboratory practice three times a week. Second term. In connection with the lectures, Norton's Chemistry or any other good text book on elementary chemistry is used. The laboratory work consists of a complete, systematic course in qualitative analysis. As a guide Weber's Select Course in Qualitative Analysis is employed. This course is finished at the end of the second term.

9. **Application of Chemistry to Agriculture.** Lectures twice a week; laboratory three times a week. Third term. In the third term, the lectures embrace the following topics: Ingredients of plants, organic and inorganic, essential and non-essential; sources of plant food, air and soil; nature of soil, mechanical portion, nutritive portion, assimilable and reserve plant food. At this point, the class is divided into two sections, the students of Agriculture continuing with soil exhaustion and amelioration; barnyard manure, its sources, composition and preservation; commercial fertilizers, their rational use and methods of determining the needs of soils; feeding stuffs and feeding rations. The students of Domestic Science are given for the remainder of the term a course of lectures on food adulteration illustrated with specimens obtained from the markets. The laboratory work of the third term begins with the quantitative analysis of simple salts as sodium sulphate and potassium chloride and continues with the analysis of limestones, soils, manures, feeding stuffs, and the short method of sanitary water analysis. The students of Domestic Science omit the analysis of soils and manures.

4. **Lectures and Laboratory.** Five times a week through the year. In the second term two hours a week are devoted to lectures on the industries related to agriculture, as the manufacture of sugar from cane, sorghum and beets; the manufacture of starch, glucose and dextrine; the nature and manufacture of vinegar, as fruit, malt and distilled vinegar; the manufacture of alcohol, malt liquors and wines. In the laboratory, the work consists of the official methods of analyzing fertilizers, feeding stuffs, milk, butter and cheese; the analysis of sugar, syrup and sugar producing plants, as beets; determination of cane sugar, milk sugar, reducing sugar and dextrine; also the determination of cane sugar and milk sugar by means of the polariscope. The analysis of flour, fruits, vegetables, condiments, etc. The analysis of vinegar, as cider, malt and distilled vinegar; the analysis of spiritous and

BACTERIOLOGICAL LABORATORY, BIOLOGICAL HALL



PHYSIOLOGICAL LECTURE ROOM, BIOLOGICAL HALL fermented liquors. Students of other departments may also elect *three hours* through the year in this course.

6. **Laboratory.** Elective *five* or *three times* a week through the year. The work of this course consists of the complete sanitary analysis of water, for which a special room detached from the main laboratory has been fitted up; the complete analysis of soils; the various official methods of determining nitrogen, potash and phosphoric acid; the analysis of oils and fats; complete analysis of grain; the analysis of tea and coffee; the examination of foods, syrups, spices, condiments, flavoring extracts for adulteration; also any work of previous courses, which for lack of time, may not have been completed.

7. **Chemistry of Milk and Milk Testing.** Lectures twice a week and laboratory practice twice a week. Second term. For dairy students. The lectures include a short course in elements of chemistry; the chemistry of the fourteen elements occurring in milk; the composition of milk, butter and cheese; the adulteration of milk, butter and cheese and the methods of detection. The laboratory work covers the following manipulations: The Babcock method of determining fat in pure milk, skimmed milk, cream, sour milk and cheese; the testing of instruments (milk bottles, lactometers, &c.). The calculation of the composition of milk by Fleischman and Babcock formulæ; the determination of preservatives in milk; the detection of artificial colors in butter and oleomargarine, &c.

ANATOMY AND PHYSIOLOGY

(Biological Hall, Rooms 12 and 20)

PROFESSOR BEILE, ASSISTANT PROFESSOR MORREY, MR. DRESBACH.

1. **Human Anatomy and Physiology.** Lectures, recitation and laboratory work three times a week. First, second and third terms. This course must be preceded by, or accompanied with, a course in chemistry.

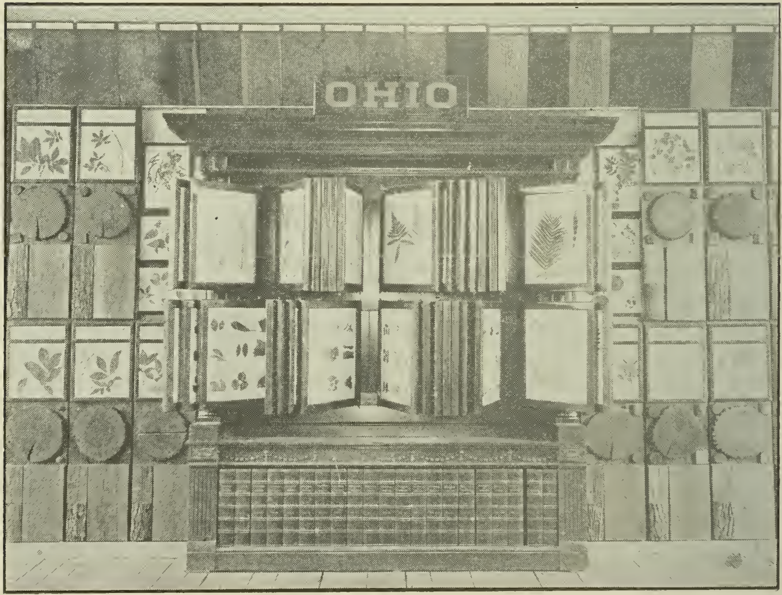
2. **General Physiology.** Lectures, recitations and demonstrations. Three times a week. Third term.

3. **Chemical Physiology.** Three times a week. Third term.

6. **Bacteriology.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to dairy and other agricultural industries. Twice a week. Second term.

10. **Bacteriology.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures of their special application to cooking and other domestic affairs. Twice a week. Third term.

CENTRAL BED IN SEC. 1, BOTANICAL GREENHOUSE



A VIEW IN THE BOTANICAL MUSEUM

ASTRONOMY

(Emerson McMillin Observatory).

PROFESSOR H. C. LORD, Director of the Observatory.
MR. J. WARREN SMITH, Special Lecturer on Meteorology.

3. **Meteorology.** Lectures on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments in use by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Twice a week. Third term.

BOTANY.

(Botanical Hall).

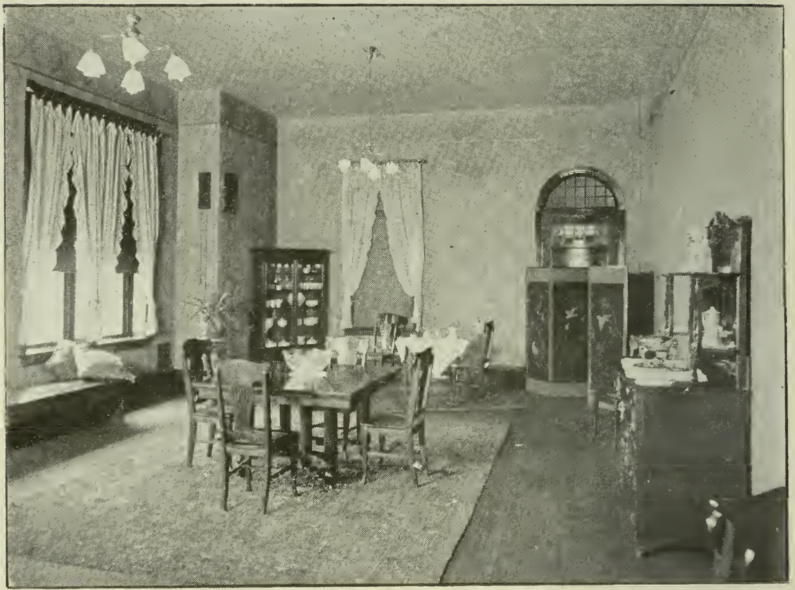
PROFESSOR KELLERMAN, ASSISTANT PROFESSOR SCHAFFNER,
FLORIST LUKE, MR. TYLER, MISS BURR, MR. FISCHER.

1. **Elementary Botany.** Lectures and recitations three times a week, laboratory work twice a week. Credit five hours. Spring term. Text-book Kellerman's Elementary Botany and Spring Flora. This is a general course introductory to those that follow. It comprises mostly Organography and Vegetable Physiology and a study of the native flora, but some instruction is also given in Ecology and Classification. For the practical or laboratory work, Kellerman's Practical Exercises is used as a guide. The students are required to do some work in the field in both observation and collecting.

6. **Physiological Botany.** Lectures and recitations three times a week and laboratory and field work twice a week. Credit five hours. Fall term. Text-book, Coulter's Plant Structures. This is intended to be a complete course showing the evolution of plants from the lowest to the highest. Ecology and Physiology are the more prominent subjects but some instruction is given on Morphology and Classification. The laboratory work includes a general course in histology with practice in experimental physiology. The student receives instruction and practice in handling the microscope and has the opportunity of learning much of the important modern methods in technique.

7. **Physiological and Economical Botany.** Lectures and recitations three times a week and laboratory twice a week. Credit five hours. Winter term. Text-book, Coulter's Plant Structures. This course is, in part, a continuation of Course 9, but the latter half of the term is devoted to a botanical study of economic plants and the vegetable products of commerce. The laboratory work includes the microscopic study of fibres, starches, resins, gums and many other important vegetable products.

8 **Vegetable Pathology.** Lectures and recitations three times a week. Laboratory and field work twice a week. Credit five hours. Spring



DINING ROOM, DEPARTMENT OF DOMESTIC ECONOMY, HAYES HALL

DOMESTIC SCIENCE LABORATORY, HAYES HALL

term. Text-book, Massee's Plant Diseases. The diseases of plants due to inorganic causes are studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes up the latter part of the term some economic subject or group of parasites for special study.

ELECTIVE COURSES.

8. **Dendrology.** Lectures and field work. Credit two hours. First term. Kellerman's Forest Trees of Ohio and various reference books are used. The native trees are studied and illustrative collections made.

10. **Dendrology.** Laboratory work and special investigations on the structure and diseases of timber. Credit two hours. Second term.

11. **Laboratory Work.** Special investigation in Economic Botany and Vegetable Pathology. First, second and third terms. Credit two to five hours.

DOMESTIC ECONOMY.

(Hayes Hall. Rooms 1, 3 and 10).

ASSOCIATE PROFESSOR BOWMAN. ASSOCIATE PROFESSOR SOUTHER.

DOMESTIC SCIENCE.

1. **Food Economics.** One lecture and three laboratory periods each week. Four hours credit. Lectures embracing, a study of the evolution of society as affected by food conditions ; second a study of food principles. Laboratory work includes experimental work with foods, and the preparation and serving of typical foods of certain classes. First term.

2. **Food Economics.** One lecture and three laboratory periods each week. Four hours credit. By lecture and research work, the relative nutritive and money values of foods are considered. Each student prepares a weekly dietary for the family ; the amount to be expended limited by the instructor. United States Agricultural Bulletin standards used. Laboratory work is a continuation of Course 1. Second term.

3. **Emergency Work and Home Nursing.** One lecture and three laboratory periods each week. Four hours credit. The lectures, demonstrations and practical work are designed to set forth the principles underlying good nursing, to take up the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home. Food suitable for invalids, infants and convalescents is prepared in the laboratory. Third term.

A CORNER IN DOMESTIC SCIENCE LABORATORY, HAYES HALL

DOMESTIC ART LABORATORY, HAYES HALL

4. (*a*). **Preservation of Foods.** Four weeks.

(*b*). **Hygiene of Clothing.** Eight weeks.

One lecture and three laboratory periods each week. Four hours credit.

(*a*). Includes a brief study of the causes of decomposition, a history of the methods employed in the preservation of foods, and practical work n canning, preserving, etc.

(*b*). Includes a study of fibres and their proper treatment. The properties and cleansing effect of water and soap; disinfecting clothing; the chemical treatment of stains and demonstrated work in practical laundry methods. First term.

10. **Household Economics.** Lecture course. Elective. Two hours. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. Third term.

DOMESTIC ART.

5. **Lectures on the Industrial and Artistic Evolution of Society.** History of the early races considered with special reference to the development in culture gained through hand-work. Practice work: Preparations of a series of models comprising the different stitches used in plain hand sewing; ornamental stitches and simple embroidery. One lecture and three practice periods each week. Four hours credit. Second term.

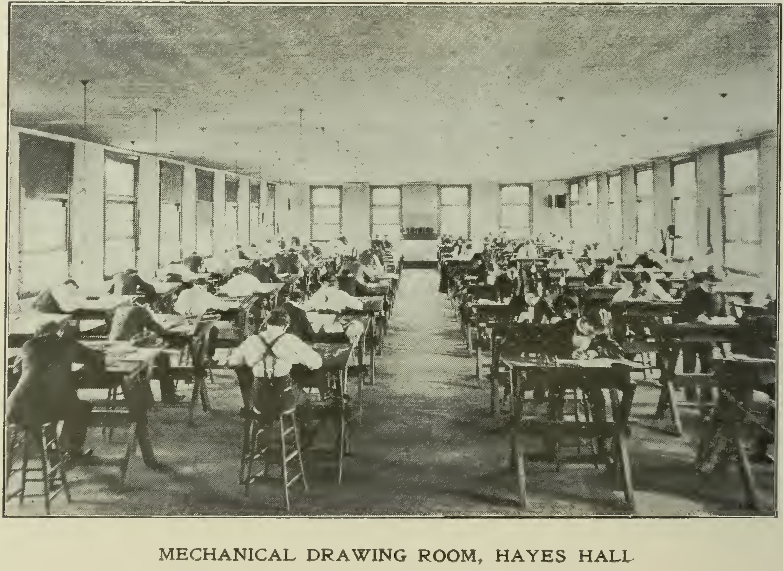
6. **Lectures on Textiles.** Study of fibres; their growth and the processes of their manufacture. Comparative economic value of fabrics. Practice work: Machine and hand work on underwear; drafting from simple measurements; designing in pencil; use of patterns; making shirt waists or wash gowns; Simple straw hats and bows. One lecture and three practice periods a week. Four hours credit. Third term.

7. **Lectures on Historic Costume.** Consideration of line, form and color; hygienic and artistic dress; treatment of wool and silk fabrics. Practice work; Drafting patterns by use of Tailoring System. Cutting and fitting. Making wool dress. Making of hat frames, covering and trimming the same. One lecture and three practice periods a week. Four hours credit. First term.

8. **Lecture and Practice Work**. Continuation of Course 7. As much time as possible being given to pencil and water color designing of costumes and hats suitable to different wearers. Original designs required to be made and carried out in the case of each individual pupil. One lecture and three practice periods a week. Four hours credit. Second term.

9. **Lectures on History of Domestic Art and Architecture and the Application of Art to Modern House Decoration.** Practice work: Continuation of Course 8. Further work in practical costume making as may be designated by the instructor; the aim being to foster good taste and judgment

ART ROOM, HAYES HALL



MECHANICAL DRAWING ROOM, HAYES HALL

in the use of expensive and inexpensive materials. Expressions of individuality encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. One lecture and three hours practice work each week. Four hours credit. Third term.

Note. Individual instruction is given throughout. Pupils are required to furnish all materials except those used in making models in Course 5. A certain amount of work is required to be completed before admittance is given to the next higher grade of work.

DRAWING.

(Hayes Hall. Rooms 22, 24 and 37).

PROFESSOR BRADFORD, ASSISTANT PROFESSOR FRENCH, MR. LEWIS.

1. **Freehand Drawing.** Practice and occasional lectures. Practice in pencil, charcoal and pen drawing from models and plaster casts. Two drawing periods a week, first, second and third terms.

10. **Mechanical Drawing.** Lectures and practice. Elementary mechanical drawings, lettering and working drawings. Two periods a week, first term.

15. **Technical Drawing.** Lectures and practice. House planning. Two periods a week; second and third terms.

16. **Technical Drawing.** Lectures and practice. Designing, preparing working drawings and specifications for structures related to agriculture. Three periods a week; third term.

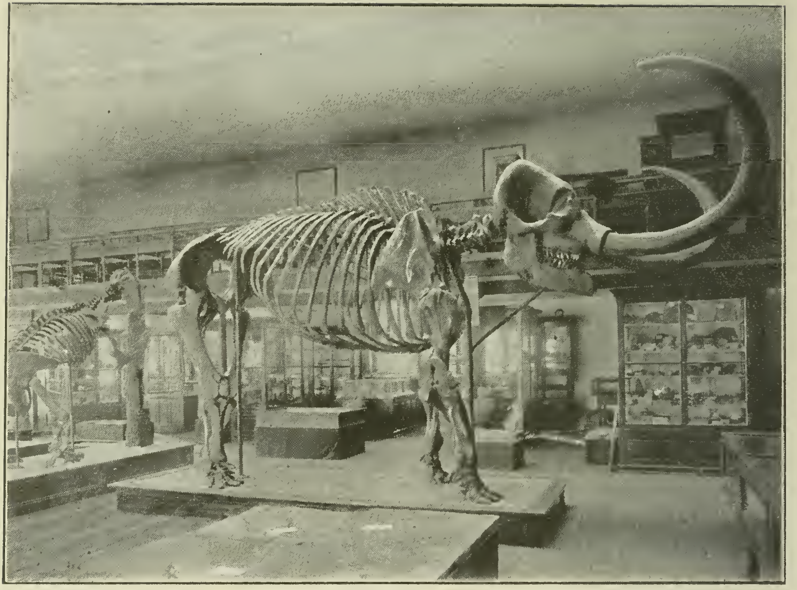
ART

An elective course in Art offered by Department of Drawing. Must be preceded by Course 1 in Drawing or its equivalent elsewhere.

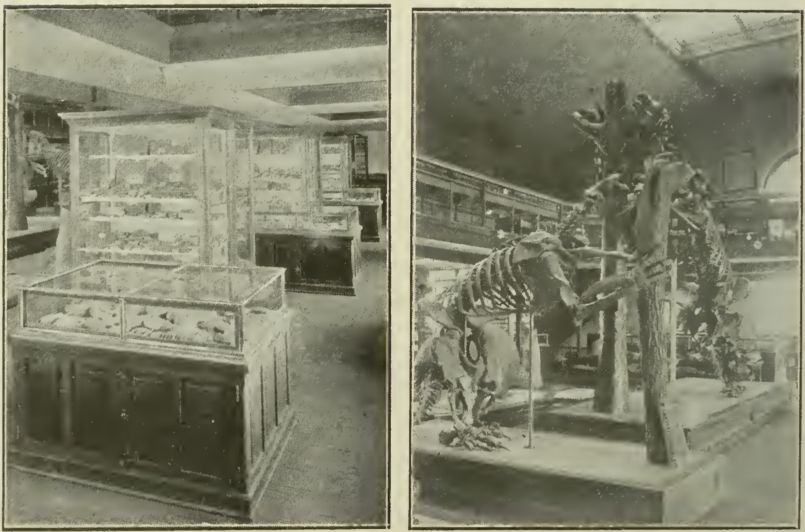
17. **Lectures and Practice.** Lectures on color standards, color theory, color harmony, color appearances, tone and graduation, atmosphere and values. Practice in color work either water or oil color. First term. Lectures illustrated by lantern slides.

18. **Lectures and Practice.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.

19. **Lectures and Practice.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term. The above is to be offered as an elective for two or three hours as follows: Lecture for one hour and practice for two or four hours as the student has time.



GEOLOCIAL MUSEUM, ORTON HALL



GEOLOGICAL MUSEUM, ORTON HALL

ECONOMICS AND SOCIOLOGY

(University Hall, Rooms 17 and 18).

Professor Clark; Mr. Smyser.

1. **Elements of Political Economy.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. (a) Four times a week during first term and twice a week second term; or (b) Twice a week second term and four times a week third term.

EDUCATION

(University Hall, Rooms 51 and 54).

Professor Gordy, Mr. Hamilton.

1. **Educational Psychology.** This course is intended to be helpful to three classes of students: (1) Those who are not preparing to teach, but who wish to make some study of education in order that they may perform their duties as members of society more intelligently. (2) Those intending to teach and who wish to study the relations between psychology and education. (3) Those preparing to be superintendents and who wish to get suggestions as to the best method of teaching Psychology to teachers. Three times a week during the year.

ENGLISH LITERATURE

(University Hall, Room 31).

Professor Barrows.

1. **An Introduction to English Literature.** This course includes: (1) An outline of the history of English Literature. For this part of the work Pancoast's "Introduction to English Literature," is covered by three examinations. (2) Lectures on the elements of literary analysis and interpretation. (3) Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. This part of the work will occupy most of the time in the recitation room. The book first used is Palgrave's "Golden Treasury." Twice a week through the year.

GEOLOGY

(Orton Hall)

Associate Professor Prosser, Associate Professor Bownocker.

2. **General Geology.** Structural, historical and dynamical geology Three hours lectures and recitations and four hours laboratory and field work. In the laboratory, Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens

will be collected, sections measured, formations identified and the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.

5. **Economic Geology.** The common minerals and rocks composing the earth's crust, their disintegration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels, coal, oil, and gas. Building stones, limes and cements. Iron, and the most useful metals. Three hours. Second term. Lectures and laboratory work.

1. **Physiography.** The topographic features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures and map work. Five hours. Third term.

GERMANIC LANGUAGES AND LITERATURES

(University Hall, Rooms 30, 32 and 38).

Professor Eggers, Associate Professor Mesloh.

1. **Elementary.** Four times a week through the year.

2. **Science Reading.** Twice a week through the year.

4. **Intermediate German and German Literature.** Four times a week through the year. German 1, is required in the course in Agriculture in the third year. German 1 and 4 are required in the courses in Horticulture and Domestic Science in the second and third years respectively. German 2 or 4 may be elected by students in Agriculture who have finished 1. German 2 or 9 may be elected by Students in Horticulture and Domestic Science who have finished previous courses, i. e., 1 or 1 and 4, respectively.

9. **Classical Drama and Prose.** Three times a week. Three terms.

HISTORY

American History.

(University Hall, Rooms 27 and 18).

Professor Knight, Mr. A. H. Tuttle

1. **Political History of the United States.** Lectures, text-books and prescribed readings. Hart's Formation of the Union; Wilson's Division and Reunion. (a) Four times a week during the first term and twice a week second term; or (b) Twice a week, second term and four times a week, third term. Two sections. The aim of this course is to give the student such knowledge of the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions.

HORTICULTURE

(Horticultural Hall)

PROFESSOR LAZENBY, MR. PRICE.

1. **Elements of Horticulture.** Lectures, text-book and laboratory work in garden, orchard and green-house. A study of the principles of plant growth and culture, preparation of soil, drainage and irrigation, weeds and insects. Four times a week. First term.

2. **Greenhouse, Construction and Management.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The vegetable forcing house, and the crops grown therein. Lectures, recitations and laboratory work in greenhouse. Four times a week. Second term.

3. **Plant Propagation.** The theory and practice of multiplying plants by seeds, cuttings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Practice in transplanting, pollinating and the use of insecticides and fungicides. Lectures and laboratory work in garden and orchard. Four times a week. Third term.

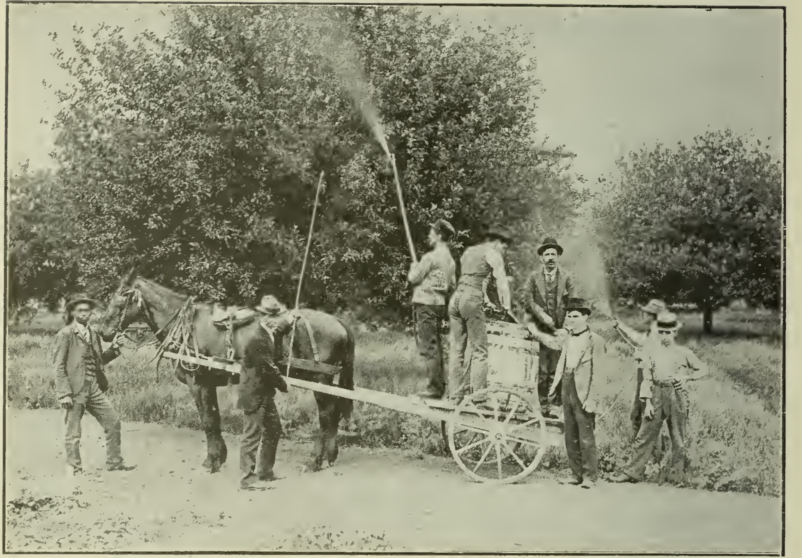
5. **Varieties of Fruit.** A study of the history, characteristics, adaption and general qualities of orchard and garden fruits, including their commercial and food value. Practice in judging and scoring apples, pears, peaches, grapes, citrous and nut fruits. Lectures, recitations and laboratory exercises. Four times a week. First term.

6. **Principles of Fruit Culture.** A study of the location, tillage and fertilizing of fruit lands; the selection of varieties, laying out and planting of fruit grounds; the care of fruit plantations, including diseases, insects and fungi; spraying and the use of insecticides and fungicides; harvesting, preserving and marketing fruit. Lectures and recitations four times a week. Second term.

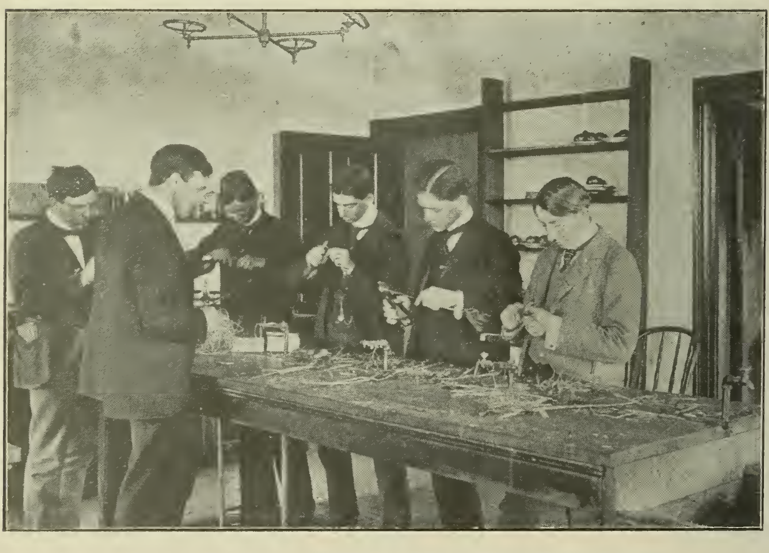
7. **Small Fruit Culture.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross-pollinating, judging and scoring of small fruits; the relation of bees and birds to horticulture; insect enemies; fungus diseases and the theory and practice of spraying. Lectures, recitations and laboratory work in garden and orchard. Four times a week. First term.

8. **Elements of Floriculture.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures and laboratory work. Twice a week. First term.

9. **Commercial Floriculture.** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures, recitations and laboratory work. Twice a week. Second term.



PRACTICAL LESSONS IN SPRAYING, DEPARTMENT OF HORTICULTURE



STUDENTS ROOT GRAFTING, HORTICULTURAL HALL

10. **Amateur or Home Floriculture.** Including the study of window gardening and general management of house plants; the out door flower garden and treatment of flower beds and borders. Lectures, recitations and laboratory work. Twice a week. Third term.

11. **Arboriculture.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges; methods of propagation and culture. Lectures and field work. Twice a week. First term.

12. **Forestry and Sylviculture.** A study of the influence of forests upon soils, crops and climate; forestry in Europe; value of trees for timber; establishment and management of small plantations of forest trees; how to improve and extend existing woodland. Lectures and laboratory work. Twice a week. Second term.

13. **Landscape Gardening.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and practice. Twice a week. Third term.

INDUSTRIAL ARTS AND SHOPWORK

(Hayes Hall, Rooms 9, 12, 17, 18, 5 and 6).

Professor Sanborn, Mr. Renck, Mr. Crowe.

Shopwork

1. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc. Second term. Two three hour periods a week.

2. **Forging.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs. Second term. Two three hour periods a week.

MATHEMATICS

(University Hall, Room 45).

Professor Bohannan, Assistant Professor Arnold, Mr. Moore.

1 **Elementary Algebra.** *Venable.* Five times a week. First term.

3. **Plane Geometry.** *Venable.* Five times a week. Second term.

THE CARPENTER SHOP, HAYES HALL

THE FORGE ROOM, HAYES HALL

MECHANICAL ENGINEERING

(Hayes Hall, Room 12; Mechanical Hall, Second Floor).
PROFESSOR MAGRUDER, ASSOCIATE PROFESSOR HITCHCOCK.

26. **Steam Machinery.** One lecture a week on the care of steam engines and boilers, pumps and injectors, and of ammonia refrigerating machinery. Course in Dairying.

MILITARY SCIENCE AND TACTICS

(Armory).
MAJOR CONVERSE.

1. **Military Drill.** Four times a week, first and third terms. Twice a week, second term.
2. **Tactics.** Lectures and recitations. Once a week. Second term.
3. **Art of War.** Lectures and recitations. Once a week. Second term.

PHYSICS

(University Hall, Room 14).
PROFESSOR THOMAS, MR. KESTER.

1. **Elementary Physics.** Recitations and experimental lectures. Five times a week. First and Second Terms. Text: Carhart & Chutes' "Elements of Physics". This course is required of students in the first year of the Short Course in Agriculture. Other courses in Physics may be elected by fourth year students in Agriculture. For description of such courses and of the equipment of the department, see general catalogue.

RHETORIC AND ENGLISH LITERATURE

(University Hall. Rooms 42, 40, 38 and 55).

PROFESSOR DENNEY, ASSISTANT PROFESSOR GRAVES, ASSISTANT
PROFESSOR MCKNIGHT, ASSISTANT PROFESSOR
ALLEN, MR. BOHN, MR. ABBOTT.

1. **Paragraph Writing and Analysis of Prose.** Three terms. Twice a week. Required.

21. **Essentials of Oral Discourse.** Three terms. Once a week. Credit one-half hour. Required.

2. **Expository Writing.** First term. Twice a week. Must be preceded by 1. Elective.

3. **Brief Making and Written Argumentation.** Second and third terms. Twice a week. Must be preceded by 1 and 2. Elective.

23. **Debates.** First and second terms. Two hours a week. Must be preceded by 3. Elective.

24 **Extempore Speaking.** Third term. Twice a week. Must be preceded by 23. Elective.

25. **Oratory.** Three terms. Twice a week. Must be preceded by 3. Elective.

10. **Advanced Composition.** (Individual work). This course is designed for upper classmen who desire to continue practice in some one of the forms of composition studied in courses 1, 2, 3, or who seek criticism of work intended for publication in newspaper or magazine. Each student will meet the instructor at stated periods for criticism and assignments. Course 10 may be undertaken at the beginning of any term. Credit one hour, limited to three terms. Elective.

ROMANCE LANGUAGES AND LITERATURES

(University Hall. Rooms 35 and 34).

FRENCH.

PROFESSOR BOWEN, ASSISTANT PROFESSOR BRUCE, MR. JONES.

1. **Elementary French.** Four times a week throughout the year. Grammar and reader, modern prose and plays. Grammar: Joynes' Minimum or Edgren's (Part 1) or Grandgent's Essentials, with written exercises. Reader: Super's (from Part 2) or Whitney's (Parts 1 and 2) or Laboulaye's Contes bleus. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. After the completion of the reader, historical and narrative prose works are taken up, followed by the study of one or more prose comedies. All the works read are taken from nineteenth century literature. As the texts used vary from year to year, no special volumes or editions are here cited. Toward the close of the year sight reading is emphasized.

2. **Modern French Literature.** Four times a week throughout the year. The study of the literature as such is now taken up. The work of the year covers a survey of four fields: (1). Contes and Historiettes; (2). The Novel (Balzac, Eugenie Grandet); (3). Lyric Poetry (Bowen's Modern French Lyrics); (4). The Drama; Comparative study of the classical and romantic drama (Corneille, Horace; Hugo, Hernani). Private reading is also required, covering selections from the short stories of Daudet and an episode from Hugo's Les Miserables. The work is supplemented by lectures; these include a general survey of French literature from its beginning, together with special lectures on Balzac, Victor Hugo, Corneille and the classical and romantic drama. During the first half year one hour a week is also given to practical work (prose composition, conversation, study of syntax and idiom, as found in Chardenal's French Exercise for advanced students). This course is open to those who have completed Course 1, or who have received credit for French as an entrance subject.

VETERINARY MEDICINE

PROFESSOR WHITE, DR. FREDERICK.

28. **Veterinary Anatomy.** Special course for students in agriculture. Brief outline of the anatomy of the horse and ox. First term. Lectures and recitations four times a week. Clinical practice once a week.

29. **Veterinary Practice.** The more common diseases of a non-infective character, to which farm animals are subject. Minor surgery, castration, and the principles of horseshoeing are included in this course. Second term. Lectures and recitations four times a week. Clinical practice once a week.

30. **Veterinary Practice.** The more common infectious and contagious diseases affecting farm and dairy animals, and the most scientific methods of preventing, dealing with and treating the same. Third term. Lectures and recitations four times a week. Clinical practice once a week.

17. **Diseases of the Cow.** Special course for students in Dairying. Lectures and demonstrations consisting in the following: (*a*). Anatomy of the cow with special references to the digestive, reproductive and milk-producing organs.. (*b*). The more common non-infectious diseases of these organs and their treatment. (*c*). Most important infectious and contagious diseases and methods of preventing and dealing with them. (*d*). Practical methods of administering medicines, securing during operations, casting, etc. Second term. Three hours per week.

*ELECTIVES

Veterinary Medicine (11; 12; 13) 5. (Anatomy) First, second and third terms. Veterinary Medicine (14; 15; 16) (General Pathology and Theory and Practice). Five times a week throughout the year. This Course should be preceded by Veterinary Medicine (11; 12; 13) 5 and by Physiology (1) 3. Veterinary Medicine (19) 3. (Horse, Cattle, and Dog Clinic in the Veterinary Hospital). Daily, including Saturdays, 10—12 M. First, second and third terms. Veterinary Medicine (21—22) 3. (Infectious and contagious diseases). First and second terms. Veterinary Medicine (23) 3. (Obstetrics). Second term. Veterinary Medicine (26) 3. (Principles of Horseshoeing). Third term.

ZOOLOGY AND ENTOMOLOGY

(Biological Hall, Rooms 3, 4, 7, 8 and 9).

PROFESSOR OSBORN, ASSISTANT PROFESSOR HINE, ASSISTANT PROFESSOR LANDACRE.

1. **Invertebrate and Vertebrate.** Three times a week. Invertebrate, first and second term; Vertebrate, third term. This course includes a

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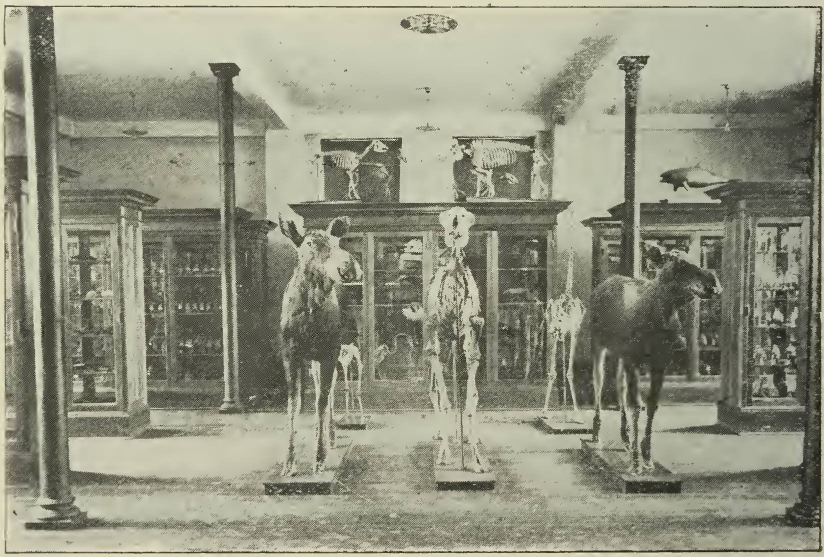
*Although the above electives are especially recommended, agricultural students who have had Anatomy and Physiology may elect any subject taught in the College of Veterinary Medicine.

A CORNER IN THE BOTANICAL LABORATORY



ZOOLOGICAL MUSEUM, BIOLOGICAL HALL

general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domestic species.

3. **Economic Entomology.** Insects of Forest, Orchard and Garden. Five times a week. Third term. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc.

4. **Economic Entomology.** Twice a week, through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy and class recitation s and lectures

7. **Systematic and Practical Entomology.** Two lectures and one laboratory period a week. Third term. An elementary practical Course for students in the Short Course in Agriculture.

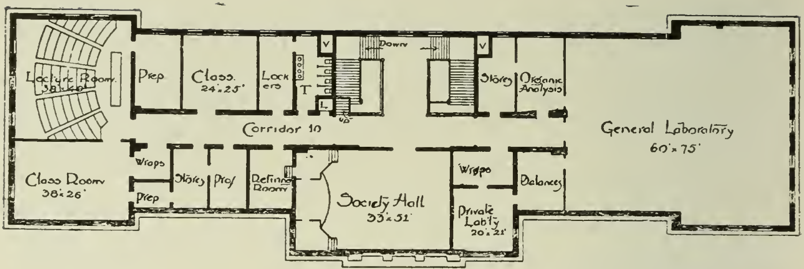
8. **Parasites of Domestic Animals.** A lecture course devoted to the principal parasites affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. First term.

9. **Special Entomology.** Studies of life-histories, collection and classification in selected groups. Field work and lectures. Four periods each week. Elective. Fall term.

10. **Special Entomology.** Studies of winter condition of insects. Insecticides, insecticide machinery, methods of preparing insect illustrations, greenhouse pests, etc. Four periods each week. Elective. Winter term.

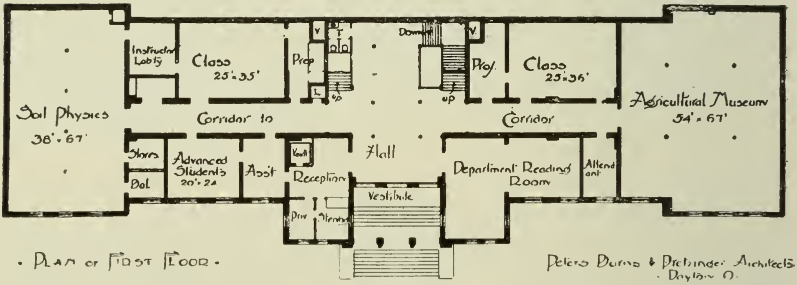
11. **Special Entomology.** Investigations of selected groups or species. Lectures on insect legislation, distribution, natural enemies, special methods of control, etc. Four periods each week. Elective. Spring term.

Courses 9, 10 and 11, are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.



Peters Burns & Pretzinger, Architects
- Dayton O.

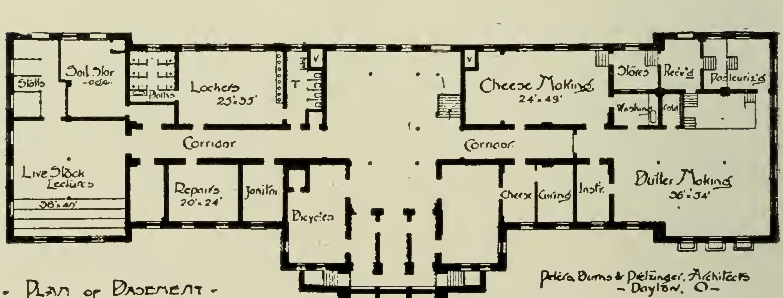
- Plan of Second Floor -
- Townshend Hall - Ohio State University -



- Plan of First Floor -

Peters Burns & Pretzinger, Architects
- Dayton O.

- Townshend Hall - Ohio State University -



- Plan of Basement -

Peters Burns & Pretzinger, Architects
- Dayton, O.-

Townshend Hall - Ohio State University -

EQUIPMENT AND FACILITIES FOR INSTRUCTION

Agriculture. This department is located in Townshend Hall, headquarters for the College of Agriculture and Domestic Science, which was completed in 1898 at a cost of $100,000. This agricultural building is named after that illustrious pioneer in "education for agriculture", the late Dr. N. S. Townshend, who for twenty-five years was professor of agriculture in the Ohio State University, and who, in 1854, associated himself with James Dascomb, John S. Newberry, and James H. Fairchild, in establishing the "Ohio Agricultural College" at Oberlin. Townshend Hall is a memorial to his public services and his work in advancing the cause of agricultural education.

Townshend Hall is 260 feet long, and varies in width from 64 to 78 feet. It contains two stories, and a basement which is fourteen feet high, making the building practically three stories high. The walls above the basement line are of gray pressed brick. The basement walls and the front entrance are of Bedford, Indiana, Oolotic limestone and the trimmings are of terra cotta of the same color as the brick. The roof is of dark red tile.

The building is of slow burning construction throughout with painted interior brick walls, exposed beams, maple floors, and hard pine finish. Throughout the dairy department, which has about 6,000 square feet of floor space, the floors are of tile and the walls enameled brick. The floor plans on the page opposite show the arrangement of offices, class rooms and laboratories.

The department is supplied with apparatus for studying the effect of grade angle, height of obstruction, height of hitch, size of wheel and weight of load on draft of wagons. A large model shows correct and incorrect methods of making and using the doubletree. A wooden model demonstrates the effect of high and low hitch and width of hock on the pulling capacity of the horse. A self registering dynamometer is used to determine the draft of vehicles and farm implements under varying conditions, a number of implements being kept for this special purpose. Drainage levels are used in leveling and laying out tile drains. The Agricultural Museum contains many of the latest patterns of farm machinery, including self binders and mowers from all of the leading manufacturers. In the study of soils, the large glass house with its equipment of railroad tracks, trucks and pots affords opportunity for the student to test the adaptability of crops to various soils; the fertilizer requirements of soils and to experiment on various other problems of crop growth. The soil physics laboratory is supplied with apparatus for studying the specific gravity of soils; volume weight of soils; power of loose soil to retain moisture; power of compact soil to retain moisture; rate of flow of air through soils; rate of percolation of water through soils; effect of mulches on evaporation of water from soils; effect of cultivation on evaporation of water from soils; power of dry soil to absorb moisture from air; and the capillary rise of water through soils. Mechanical analyses are also made of typical soils.

In the study of crops, large use is made of the collection of dried specimens of grasses, grains, and seeds. The grass garden contains about twenty-five varieties of grasses and clovers, growing side by side where comparisons may be made as to the value of each for pasture, meadow and grass. The farm is visited frequently by the students who make observations and studies of the practical methods there employed in the growing of crops and in the feeding and management of live stock. The live stock judging room is supplied with implements for precise measurement of animals and with score cards of all the different types of domestic animals. The students are here given opportunity to study every detail of conformation. The animals used are selected from the University farm or are contributed from time to time by the breeders of the state. Some of the best animals of their kind in the state have been brought here for the students to study. Numerous excursions are also made to the farms of leading breeders, both for the purpose of studying types and methods. The class room is provided with a stereoptican and a large collection of carefully selected lantern slides of the leading individuals of several breeds of live stock. The herd books of the several breeds are made use of in familiarizing the students in methods of tracing pedigrees and the practices of breeders' associations.

The dairy laboratory has one of the finest equipments in the country. In the spacious creamery room are a dozen different styles and sizes of cream separators and the student is enabled to obtain a thorough knowledge of the mechanism and efficiency of this class of machinery. There are also half a dozen styles of churns and butter workers of different types including some of the latest inventions. A number of hand power and steam turbine milk testers are supplied for testing milk and the products therefrom. The work of the student in this part of the dairy laboratory is checked up each day by means of eleven different report blanks, which the students are required to fill out and hand to the instructors in charge. The room in which the bottling, and pasteurizing of milk and cream is carried on is an exceptionally fine one. In it are vats, wash-sinks, separator, two styles of pasteurizing machinery, bottling apparatus and a large steam sterilizing oven. The cheese department has the use of spacious, well-lighted, making room and curing rooms. In the equipment are vats, three styles of presses, curdmills, etc., for the manufacture of Cheddar cheese, and the necessary apparatus for making brick and Edam cheese. Students in this part of the work make daily reports on five different forms of blanks. In an adjoining power house are found a boiler, two engines, pumps, and refrigerating machinery, which are operated by students under the direction of an instructor. The student is taught to make the best possible product with the least loss of raw material, and to handle the machinery carefully. Important points in the work are drawn out in the class rooms by means of lectures, recitations and written examinations.

Agricultural Chemistry. The department of agricultural chemistry occupies the greater part of the second floor of Townshend Hall. The main students' laboratory is at present fitted up with ninety-two desks, and when completely fitted up will accommodate one-hundred and fifty students. Each desk contains a complete outfit of apparatus and chemicals necessary for the work in hand. The outfit in each desk is secured by combination locks. Special apparatus and chemicals are supplied from the store room. Each desk is supplied with gas and water. Hoods for evaporation and generation of noxious gases and liquids are conveniently arranged on both sides and one end of the laboratory. From the main laboratory, easy access is had to the balance of the room and private laboratory of instructor on one side and to the organic analysis and assistant's room and store room on the other. A room entirely detached from the main laboratory is fitted up for water analysis and for the polariscopic determination of sugar. The lecture room is capable of seating one-hundred and fifty students. In connection with it is a preparation room, which is supplied with the necessary apparatus and specimens for illustrating the lectures. This floor also contains a resting room and a toilet room for young women.

Bacteriology. The first half of the term, during which this subject is taught, is taken up by lectures and recitations, the latter half is given to laboratory work. Bacteria are first studied in a general way and in their general relationship to man and his surroundings. Then is taken up a more specific study of their influence and work in soils in higher plant growth and in animal life, together with their important and manifold performances in milk, butter and cheese. In the laboratory is taught the preparation of culture media, the methods of study for bacteria, the isolation of pure cultures and the numerical examination of water, milk and air. A special room is set apart for this work provided with incubators, sterilizers and all other necessary apparatus. Students so desiring may elect advanced work along the lines indicated.

Botany. The department offers good facilities for instruction and investigation. The Botanical Building contains a large lecture room, Museum, Herbarium, three laboratory rooms, dark room, drying room, store room and offices. The lecture room will, the coming year, contain a stereoptican furnished with electric light; a large number of charts, many of them colored lithographic, photographs and mounted illustrative specimens are the other principal appliances for daily class work. In this room are placed fifteen of the more important popular journals of Botany for the use of students. The Botanical books in the University Library, a valuable and growing collection, are largely used for reference in connection with the several courses. The Museum contains a large amount of illustrative material; the native medicinal plants and the collection of Ohio woods being very complete. The State Herbarium consists of between twelve and fifteen thousand sheets of Ohio plants. The general herbarium is much larger. Professor Kellerman's private herbarium of twenty thousand specimens, mostly parasitic fungi, is also used by the Department. The large laboratory is well equipped with dissecting and compound microscopes; also the usual appliances for doing both elementary and advanced histological work. One of the small laboratories is devoted to experimental work in vegetable physiology and the other to systematic Botany. The green-house attached to the Botanical building is an important adjunct to the department. There are four sections containing a total of nearly 3,000 feet of glass. It contains a large number of illustrative plants, about 3,000 specimens representing the principal plant families and belonging to several hundred species. The green-house furnishes much fresh material for laboratory use. It is also used as a laboratory to carry on special work when growing plants are used.

Domestic Science. The periods devoted specifically to the study of Domestic Science are quite fully outlined in the preceding pages and it seems unnecessary to elaborate here. Sufficient to say that the course aims to supplement the work of other departments and to apply it to practical home life. The study of Botany, Zoology, Chemistry, Physiology and Bacteriology makes it possible for the student to understand the functions of various organisms and to appreciate the changes constantly occuring in plants and animals. The needs of the body in a superficial way have long been taught, but it is imperative that every one who attempts to maintain life at its best, should know definitely what is required for a human being and how to provide it. A woman should be conversant with the food principles, know where they are to be found, in how large proportion they should be supplied, how they are best prepared for consumption and the effect of each in the body. In a general way she should be able to analyze disease and be prepared to guard against it. Again sociology has an especial bearing upon home life; the personal assistance given to individuals, either in the home or by means of charities, is largely delegated to women and they might accomplish far more for humanity if they gave less outright and were prepared to teach the dependents better means of helping themselves. Industrial activities demand consideration. The consumptive side of Economics is as important as the productive side and belongs to women. They should know absolute values, from every standpoint, and this knowledge does not come by studying text-books, but by actually dealing with things. The home is founded on and protected by sanitary and hygienic laws and the mastery of them is quite within the province of every woman, when competent teachers are prepared to expound them. Their study is of no less interest than that of other sciences and every science and art is made more vital and more fascinating by a knowledge of some definite way in which it may be applied.

Domestic Art. The object of this course is to give the student an insight into that cultural development of the race which has been gained through handwork. The work is taken up along advanced educational lines; the value of manual training is emphasized and an effort is made continually to correlate the subjects taught in the Department of Domestic Art with other College work, such as History, Botany, Literature, Anthropology, Sociology, Economics, Drawing, etc. It is felt that too much stress cannot be laid upon the development of character as gained through manual training, and besides giving that deftness of hand which is a needed accomplishment with every woman. It is believed that that education is incomplete which fails to develop the native artistic abilities of the pupil and give to her a training in ways and means of usefulness which shall make her succeed when she enters the world as home maker or wage earner. Too many women are useless drones in society, burdens in the home or the world at large because they have so few resources; they have not learned to adapt knowledge or to work out with their hands the useful and artistic ideas held in the mind. Emerson says: "The creation of beauty is art, and the love of beauty is taste." To develop good taste, is to insure homes of taste, and this implies architectural beauty of the house proper, artistic decoration of the interior and harmonious dressing of the inmates. Manifestly this involves the study of a number of subjects, all of which bears more or less directly upon the Domestic Arts. Taking as our ideal the thoroughly rounded character, the well developed woman physically, mentally and morally, we must add to all other knowledge those touches of grace, given perhaps more especially than by any other lines of study, through a study of Art. It is through Art study that we come to appreciate beauty in line, form and color by applied work, following the recognized principles of the best artists we are able to develop originality and skill in ourselves. The work of the Art Department and the work of the Domestic Art courses are being arranged more and more to complement each other, and besides the technical training in sewing necessary as a foundation to the right treatment of fabrics, the course is simply applied work in Art—'Art in every day relations.'

Drawing. The Department occupies the entire third floor aud one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for practical training in the same:

For freehand drawing, water color and oil painting:—A large studio, thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster casts of ornaments, flowers, fruit and the antique, and materials for "still life."

For clay-modeling :—A specially arranged and equipped studio, twenty-six by thirty-two feet, for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds, and lockers.

For mechanical drawing and mechanical architectural designing :—A large, well-lighted room, forty by eighty-five feet, provided with O. S. U. drawing tables (30 by 36 inch tops), a set of Schroeder models, a collection of shop drawings and facilities for blue-printing.

For photography :—A well arranged and equipped dark room, printing apparatus, copying cameras, seven view cameras, lenses of long and short focus, telephotographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well selected collection of books pertaining to the work of the Department.

Geology. The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late geographical survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. Orton Hall, completed at a cost of more than $100,000, is designed for the permanent accommodation of the large geological collection of the University and for the work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fire proof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room ; at the left is the University library and reading room. The central and rear portion is occupied by the geological and paleontological museums. In the basement the economic museum is located. On the second floor is located the stratigraphical and petrographical laboratories and the archeological museum.

Germanic Languages. The department possesses as aids in illustrating and supplementing the work, the following collections : Complete sets of maps of European and specifically Germanic countries ; a large number of illustrated volumes, showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in

Germany at different epochs. The collection is the largest of its kind in the State; a number of photographs of the leading authors of Germanic Literature.

Horticulture and Forestry. This department has under its immediate control about twenty-five acres of land. About one-half of this area has been planted with numerous varieties of cultivated fruits. The remainder is devoted to market gardening. Students have an opportunity of observing all the operations carried on from the sowing of the seed and transplanting, to the harvesting and marketing of the crop. Among the facilities for instruction and illustration that deserve special notice are two vegetable forcing houses with packing rooms, tool rooms, etc. These houses are attached to Horticultural Hall, and are each one hundred and twenty feet long by twenty in width. They are heated by hot water. One interesting feature in the management of the forcing houses is the method of watering by subirrigation. This method had its origin in these houses and marks a great step in advance in green house management. Lettuce, radishes, cucumbers, parsley, cauliflower, onions, rhubarb, asparagus and other vegetables are grown in the forcing houses during the college year. Among the additional facilities provided for the illustration of the different courses in the department, and for practical training in the same are (1) orchards, containing well selected varieties of apple, pear, plum, cherry and quince: (2) a small vineyard, containing some of the standard varieties of grape; (3) small fruit plantations, stocked with some of the best varieties of strawberry, raspberry, blackberry, currant and gooseberry; (4) large vegetable gardens, with pipe-heated hot-beds, cold frames, conveniences for irrigation, experimental plats, etc.; (5) a small nursery and forest tree plantation, with practice rows for budding, grafting, pruning and training; (6) ornamental grounds and native woodland, containing a large variety of evergreen and deciduous trees and shrubs; (7) a green-house, with an extensive collection of exotic plants; (8) a collection of seeds, woods and other preserved natural specimens; (9) a collection of fruit in jars, also models of apples, etc.; (10) a laboratory well equipped with dry ovens, balances, seed testers, and other appliances for study and research; (11) a collection of horticultural hand tools for budding, grafting, pruning, etc.; (12) a small apiary of a dozen or more colonies of bees.

Mechanical Engineering. The Mechanical Engineering Laboratory contains a large collection of steam and gas engines, steam and power pumps, engineering instruments and apparatus, models of machinery, and samples of engineering supplies which are instructive and are open to the inspection of the students in Agriculture and Dairying.

Physics. The Department of Physics occupies the west half of the first and second floors and basement of University Hall. The equipment allows full experimental illustration and a wide range of individual work by the student in the laboratory.

Physiology. Instruction in this subject is given by lectures, demonstrations and recitations. Incidental to the main work so much of anatomy and histology is given as will render the processes going on in the living body comprehensible. A limited amount of laboratory work is introduced during the course so that the student may personally familiarize himself with the actual appearances of things discussed in the class room. The equipment for teaching and demonstrating in this department consists of numerous Azoux and other models, charts, physiological apparatus, skeletons, microscopes and other accessories ample to meet all requirements for thorough instruction.

Romance Languages. The department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps, including map of Paris ; illustrated volumes showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in France at different epochs; large photographs and engravings of the principle French writers ; collections of French prose extracts for use in sight reading.

Shopwork. The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making and forging. The carpenter and pattern shops are equipped with twenty five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone. The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot power hammer, a blacksmith's drill and punch, shear and bar cutter. The blast for forges is furnished through underground piping by a 45'' Buffalo pressure blower, and the smoke is removed by a 55'' Buffalo exhaust fan over head. Both of these fans are driven by a 15-horse-power electric motor.

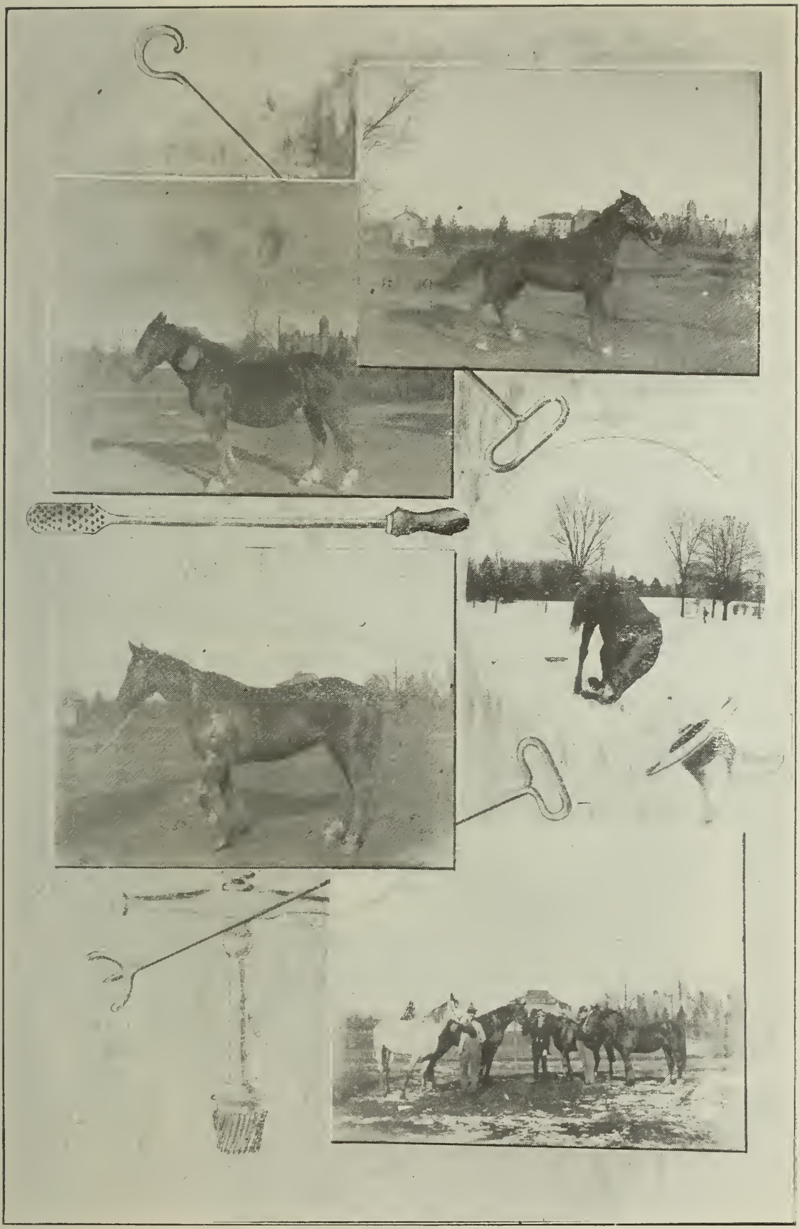
Veterinary Medicine. Students in Agriculture taking required or elective work in veterinary medicine can avail themselves of the whole equipment of the College Veterinary of Medicine. For class room work a large number of papier-maché models, wet and dry anatomical specimens, sample horse-shoes, charts, diagrams and drawings, surgical instruments and apparatus are constantly employed to supplement text-book teaching in all classes. The Veterinary Hospital, a plain brick building, affords excellent facilities for the care and treatment of diseased and injured animals, giving the students an opportunity to become familiar with and learn practically the maladies to which domesticated animals are subject. It contains box stalls, stalls for cold water application, a large and well lighted operating hall and two special wards for smaller animals. A drug dispensary and

DAILY CLINICS AT VETERINARY HOSPITAL

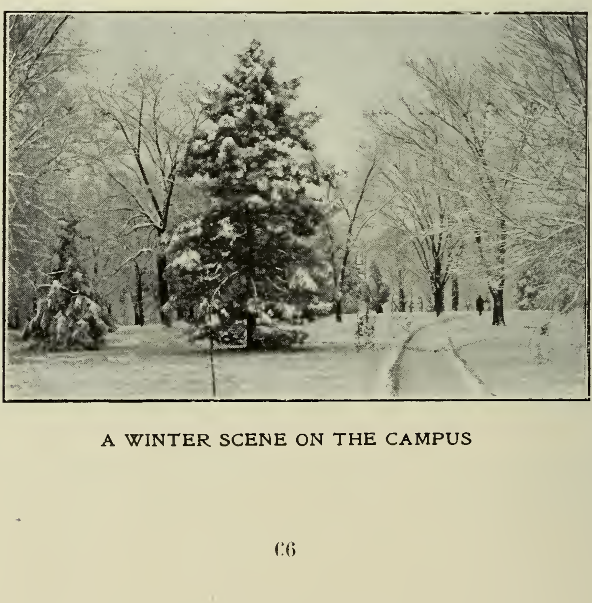
A PRACTICUM IN PHYSICAL DIAGNOSIS, VETERINARY HOSPITAL office with telephone are on the first floor front of the building. The upper floor is occupied by the house surgeon and two students selected from the senior veterinary class, who have immediate charge of the animals left for treatment. The free clinic is held for two hours daily (Saturday included) at this building. During the clinic hours agricultural students taking Veterinary Medicine (29 and 30) and those electing Veterinary Medicine (19), are required to assist the instructors in all surgical operations (castration, spaying, examinations for lamenesses, dental work, etc.) and to administer all medicines to sick animals, under the direction of the hospital staff. Inasmuch as from 1000 to 1500 animals are treated annually at this clinic, the students have ample opportunity to learn in a practical way the best methods of treating diseased and injured stock. A herd of fifty cattle, a drove of hogs, and several horses kept on the University farm furnish clinical material during the college year. The dairy herd is tested with tuberculin once a year, to determine if tuberculosis be present. The students conduct this test, under direction of the veterinary instructors, thus learning by actual doing, the modern method of diagnosing latent cases of bovine consumption.

Zoology and Entomology. Work in this department is largely on the laboratory plan, the effort being to have each student become familiar with typical forms of animal life, acquire the power to discover facts for himself and use them in practical applications. Animals that have an important economic relation are used as examples for their respective groups. While the aim is to give a thorough and sound training in the underlying principles of Zoology and Entomology, the practical bearing of these is shown by use of such forms as the liver fluke of sheep to show effects and relations of parasitism, the earthworm in its relation to soil formation, trichina as effecting human health and meat exports, insects, both useful and injurious, fishes as a source of food, relation of birds to insect control and importance of certain groups of birds and mammals as the source of our domestic animals. Advanced courses provide for training in methods of research and especial attention is given to preparation for investigation as experiment station workers in Entomology or Zoology. The adjacent fields, wood, lake and river along with various well equipped laboratories, museum and department library give abundant opportunity for study. The collections of skeletons, birds and insects are especially rich. The department occupies the first and third floors and part of basement in the new Biological Hall and is well provided with laboratory rooms and space for special lines of work. The Lake Laboratory maintained at Sandusky and open from June 15 to September 15 offers courses of instruction and exceptional opportunities for original research in Entomology and Ichthyology. Particulars regarding it may be had by applying for special circular.

Library. The University Library is a well selected collection of 32,000 volumes. The character of the collection is high and the students in all departments of University work find it an excellent working library. The



SNAPSHOTS FROM THE CLINIC, DEPARTMENT OF VETERINARY MEDICINE books occupy the first, main, and balcony floors of the east end of Orton Hall and on each floor is to be found reading room space with comfortable chairs and tables. The shelves are all open, each student having the privilege of going directly to them, thus gaining familiarity with books which is a source of power the value of which can scarcely be estimated. The students are not thrown entirely on their own resources however, the reference assistants being always ready to help a student in looking up his subject and also to instruct him in the best methods of using the books for himself. The library is gradually accumulating sets of scientific serials and transactions which are of the greatest value to all scientific workers in whatever field. Its periodicals list at present numbers 305 The students in the College of Agriculture and Domestic Science have in some respects especially excellent library facilities. The majority of the books bearing on their work are to be found in the General Library, but there is also in Townshend Hall, a special department library and reading room. In the General Library are approximately complete sets of Agricultural Reports of all the states, of the Experiment Station Bulletins and of the Bulletins of the United States Agricultural Department: In addition there is a good collection of general works and of periodicals, treating on agriculture and its allied subjects. In the Department Library are kept the herd books, duplicate sets of United States Agricultural Reports, and Ohio Agricultural Reports, and a large number of papers. These the students can often read between classes, when there is not time to go to the General Library.



A WINTER SCENE ON THE CAMPUS

ADMISSION, ATTENDANCE AND GRADUATION

The entrance examinations for 1901 will be held on Monday, September 16.

Applicants for admission to the College of Agriculture and Domestic Science must be at least sixteen years of age, and must be provided with credentials of scholarship from their last instructors, or from the last institution with which they have been connected, and with a certificate of good moral character.

There are three modes of admission to the University :

1. Certificates of the preparatory departments of colleges of approved standing and of normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions :

Each certificate must contain a detailed statement of the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank, or standing in it. A copy of the course of study, should accompany the certificate, and both should be sent to the University not later than the first of September. The University cannot promise this recognition to certificates presented during the entrance week.

Blank certificates will be furnished on application.

Applicants for admission who come from other colleges or universities, are required to bring certificates of honorable dismission.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain high schools of the State ; and the graduates of these high schools are admitted on presentation of cards issued to them at their graduation through their principals.

3. All other applicants are subject to examination on the group of studies mentioned below.

Full equivalents for text-books named will be accepted.

REQUIREMENTS FOR ADMISSION TO FOUR YEAR COURSES

The following are the requirements :

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, *or equivalents:* Shakespeare's *Merchant of Venice, Julies Cæsar and Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Conciliation with the Colonies;* Macaulay's *Essays on Milton and Addison;* The Sir Roger de Coverly Papers in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

3. *Algebra*—Venable's Easy Algebra complete, or equivalent.

4. *Plane Geometry*—Venable, Wentworth, White or Wells, or equivalent.

5. *Botany*—Gray or Kellerman's Botany and Flora, or equivalent.

6. *Physics*—Gage, Carhart and Chute, Avery or Appleton, or equivalent.

7. Either of the following :

Civil Government—Fiske or Thorpe preferred.

History—Meyer's *General History*, or equivalent.

8. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *Le Bello Gallico.*

Or French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or German — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalent must have been read (not less than 300 pages).

Joynes' or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit, Freytag, Die Volerne Handschrift, Gerstäcker Irrfahrten.

For the present, the *German or French* required for admission may be begun at the University, but without University credits.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture. See page 20. Students may prepare in these subjects for entrance to the four years courses by entering the Short Course in Agriculture.

REQUIREMENTS FOR THE SHORT COURSE IN DOMESTIC SCIENCE

The following are the requirements :

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*
2. *English*—(*a*) Composition and Rhetoric ; (*b*) English Classics.
3. *Algebra.*
4. *Plane Geometry.*
7. Either of the following :
   Civil Government.
   General History.

ADMISSION TO THE SHORT COURSE IN AGRICULTURE AND THE COURSE IN DAIRYING

Applicants must be at least sixteen years of age, and unless over twenty-one, must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Courses may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions.

1. The regular entrance requirements must be satisfied.

But applicants who are not less than eighteen years of age, after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the Faculty to any class in the College; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for degrees, he shall take the omitted entrance examinations at least twelve months before the degree is conferred.

2. On entering the College, students desiring to pursue special work are required to lay before the Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other university or college must first obtain admission in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.

2. Applicants who come from the collegiate department of an approved college, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismission, will be admitted without examination, except such as may be necessary to determine what credit they are to receive here for the work done in the college from which they come.

REGISTRATION

All students are required to register and pay their term fees on or before the first day of each term, between the hours of 8:00 a. m. and 12 m., or between 1:00 and 4:00 p. m., central standard time.

Former students who fail to register as above will be charged one dollar in addition to the usual incidental fee, for the first day of delinquency, and fiffy cents additional for each subsequent day.

No candidate for graduation will be permitted to register for the second term of his graduating year, except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

AMOUNT OF WORK

No student is permitted to take less than fifteen credit hours a week of any sort of work, except by special permission, and no student will be permitted to take more than the regular work of the class to which he belongs, who has not passed all his work for the preceding term. A credit hour means one hour class room work in lecture, recitation or quiz, or two hours of laboratory work.

ELECTIVE STUDIES

All elections of work in continuous studies, when once made, are understood to be made for the entire collegiate year.

The right is reserved to each professor to withdraw the offer of any elective study when it is not chosen by at least four persons.

EXAMINATION AND STANDINGS

At the close of any term a student failing to pass in two-thirds of his work will be considered on probation; and a second similar failure will forfeit his connection with the University.

THESIS

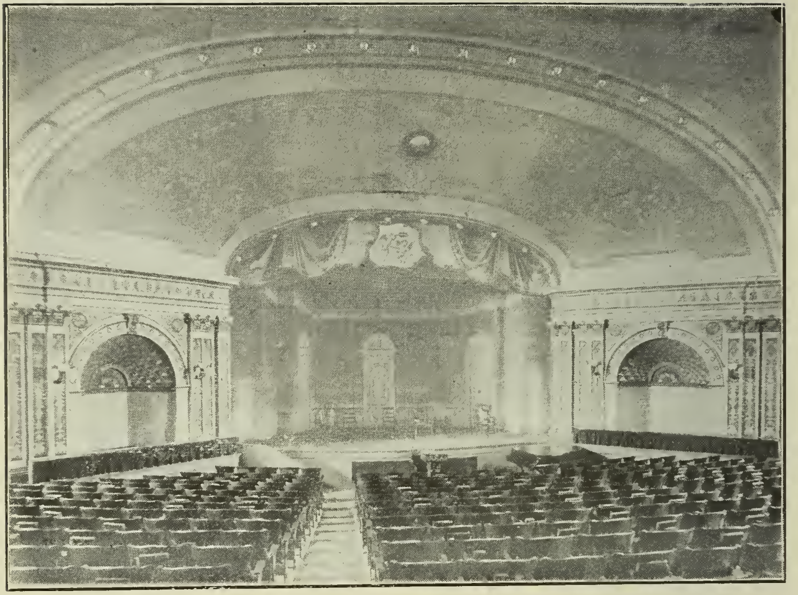
As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than December 14th of the fourth year; and the completed thesis must be presented in duplicate, on standard paper of certain size and quality, typewritten, bound, and titled, not later than the second Saturday before Commencement Day.

DEGREES

The degree of Bachelor of Science in Agriculture is conferred on students who have completed the Course in Agriculture; that of Bachelor of Science in Horticulture and Forestry upon those who have completed the Course in Horticulture and Forestry; and that of Bachelor of Science in Domestic Science upon those who have completed the course in Domestic Science. Master degrees are conferred upon graduates of these courses at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved Course of study in the University. Each candidate is required in addition to present an acceptable thesis upon some subject connected with his Course of study.

THE CONVOCATION

At the opening of the year in September 1900, the daily chapel exercises were abandoned. As a substitute for the short daily exercise an entire hour is now devoted to a convocation at which the President presides. In addition to devotional exercises an address is delivered upon some suitable topic. During this hour the libraries and laboratories are closed and no other University exercises occur. It is expected that the Faculty and students will attend. The hour is definitely fixed at ten o'clock on Wednesday of each week. The public is always welcome at the Convocation.



THE CHAPEL

THE GYMNASIUM

AIDS TO MORAL AND RELIGIOUS CULTURE

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y. M. C. A. work. Services are held weekly and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at 71 West Eleventh Avenue as a headquarters for the association. It is hoped that in the near future a permanent home for the association may be provided.

An equally commendable organization is the Y. W. C. A. affiliated with the State organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a handbook of information concerning the University or for information concerning rooms, boarding or employment. Address, J. P. Davies, 71 West Eleventh Avenue, Columbus.

CADET SERVICE AND GYMNASIUM

From the opening of the year until the Thanksgiving recess cadet service is required four times a week ; from Thanksgiving until the Spring recess cadet service is required twice each week and gymnasium practice twice ; from the Spring recess until the first of June cadet service is required four times each week.

The gymnasium is free to all students but those desiring a locker will be charged a fee of one dollar a term.

LITERARY AND OTHER SOCIETIES

There are a large number of literary and technical societies and clubs which are open to the students of all colleges of the University. Among the literary societies are the Alcyone, Athenæum, Horton and Townshend Societies open to young men ; and the Browning and Philomathean Societies open to young women. These societies have commodious and well furnished apartments. They meet weekly and their work, offering to the students a very desirable training in composition, public speaking and parliamentary order, is a valuable adjunct to collegiate education. Among the technical societies may be mentioned the Asparagus, Biological, Ornithological and Political Science Clubs. The O. S. U. Sketch Club promotes interest in art among the students of the University, while various musical organizations do the same service for music.

EXPENSES

COLLEGE DUES

Incidental Fee. Each student is required to pay an incidental fee of eighteen dollars a year and the usual fees for the expenses of laboratory work.

Laboratory Fees. Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows :

Agriculture 6	$10.00
" 15	5.00
Botany 6. 7. 8	2.00
Domestic Science	5.00
Shopwork	5.00
Zoology and Entomology	1.00

In the laboratory of the Department of Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water. He is also required to buy his own supplies, which may be obtained at the store-room in Chemical Hall. With reasonable care, this expense need not exceed $5.00 per term.

All term dues must be paid at the opening of each term as a condition of admission to classes.

A fee of five dollars to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred.

For information concerning text-books, etc., address, F. R. WEST, Ohio State University, Columbus.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms for students who desire to board themselves and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two and one-half dollars to three and one-half dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees	$ 18 00	$ 18 00	$ 18 00
Labaratory fees	15 00	20 00	54 00
Books and stationery	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	......	......
Board	70 00	110 00	150 00
Uniform	14 00	14 00	14 00
	$146 50	$224 00	$351 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued. There is no need of a student spending more than the "average" for items mentioned; many spend less.

FREE SCHOLARSHIPS

A free scholarship good for the two-year Courses or for the first year of the Short Courses and first year of the four-year Courses, is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee and all laboratory fees, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the Course. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of this College.

SELF-SUPPORT

There is a large amount of work on the University farm and campus and in the garden, orchard and greenhouses, which can be done by students, and for which they are paid at current rates for such labor. By this means, together with what can be earned by steady labor during the summer vacations, a considerable number of students defray all their expenses.

Preference is given to students who are willing to devote a certain number of hours each day to the work assigned.

Work cannot be promised to all applicants, and is not guaranteed to any.

Applications for employment should be made to Frank Ruhlen, Assistant in Agriculture. Labor blanks will be furnished upon request.

WHEAT FIELD ON THE OHIO STATE UNIVERSITY FARM

ENROLLMENT IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE, 1900-1901.

GRADUATE STUDENTS.

Gilmore, William H.	B. Sc. (Agr.)	Millersport
Hazen, Charles Ryerse	B. Sc.	Cleveland (Case School of Applied Science.)
Mooney, Charles Napoleon	B. Sc. (Agr.)	Milan
McCall, Arthur Gillett	B. Sc. (Agr)	McGaw
McCallum, Raymond	B. Ph.	Dayton
Naret, William Frazier.	B. Sc. (Agr) M. A.	Morgantown, W. Va. (Morgantown University.)
Stewart, Charles Benjamin	B. Sc. (Agr.)	Marcy.
Van Norman, Hubert E.	B. Sc.	Lafayette, Ind. (Michigan Agricultural College.)

UNDERGRADUATE STUDENTS.

Abbott, George Franklin	Agr. S.	Second	Medina
Andrews, Harry Sherman	Dairy		Dean
Armstrong, Clara	Dom. Sci.	Fourth	Columbus
Armstrong, Gertrude	Dom. Sci.	First	Bannock
Arney, Samuel Hurd	Dairy		Lancaster
Arnold, Margaret Belle	Dom. Sci.	Special	Wellsville
Atherton, William Thomas	Agr.	Second	Carrollton
Bailey, Alva Caleb	Dairy		Tacoma
Baldwin, Ethel Florence	Dom. Sci.	Second	Columbus
Barcus, Eliza	Dom. Sci.	Special	Columbus
Batterson, Annie Elizabeth	Dom. Sci.	First	Columbus
Bauman, Christian William	Dairy	Special	Axtel
Beale, Harry Glenn	Agr.	Third	Mt. Sterling
Beatty, Madge	Dom. Sci.	Second	Columbus
Belden, Herbert Lucius	Agr.	Third	Middlefield
Beneker, Robert Edgar	Agr.	Second	Cincinnati
Benjamin, Ray Calvin	Agr. S.	First	Pierpont
Bigger, Paul Breese	Dairy		Tiffin
Biggin, Orlo L	Dairy		Vernon
Bowser, Earl Levi	Agr. S.	First	West Unity
Boynton, Frank J	Agr. S.	First	Haverhill

Bratton, Alice May	Dom. Sci.	Fourth	Columbus.
Breckler, Leo Ambrose	Agr.	First	Defiance
Breeze, Clarence Nye	Agr.	Second	Lima
Bugby, Morris O	Agr.	Second	Kingsville
Cahill, Verrill W	Agr.	Second	Tiro
Campbell, Clara Naomi	Dom. Sci.	First	Columbus
Carril, Pedro Leon del	Agr.	First	San Juan, South America
Case, Claude Henry	Agr. S.	First	Hudson
Church, James Scott	Agr.	Second	Palmyra
Churchman, Moris Harper	Agr. S.	First	Jerome
Clapp, Ernest Talbot	Agr. S.	First	Chatham
Clark, Herman Alfred	H. & F.	Third	Medina
Clark, Ollie Dwight	Agr.	First	Wheat
Clawson, Lucy Blanche	Dom. Sci.	Second	Keana
Coberly, Edward D	Agr.	First	Georgesville
Codding, Harry Wylder	Dairy		Granger
Commons, Horace Joseph	Dairy		Centerville, Ind.
Conradi, Albert Frederick	Agr.	Fourth	New Bremen
Cotton, Edwin Charles	H. & F.	Third	Elyria
Crabb, James Byrl	Agr.	Second	Mt. Sterling
Crawford, Mary B	Dom. Sci.	Fourth	Blaine
Creamer, Jesse Carlton	Agr. S.	Second	Jeffersonville
Crumrine, George Ray	Agr. S.	First	Nova
Darling, Mabel Cordelia	Dom. Sci.	Special	Cardington
Davis, Ella Augusta	Dom. Sci.	Second	Galena
Davis, William Woolson	Dairy		Newark
Day, Albert Edward	Agr.	Third	Mt. Carmel
Derby, Florence	Dom. Sci.	Fourth	Columbus
Ditto, Theodore Walter	Agr.	Second	Delphos
Dixon, Eva Nicholson	Dom. Sci.	Third	Columbus
Dock, Norton	Agr. Sci.	Second	Cincinnati
Dresbach, Mary	Dom. Sci.	Fourth	Columbus
Dunlap, S. Arthur	Agr. Sci.	First	Williamsport
Dunlap, Frederick	H. & F.	Second	Chillicothe
Dunn, Hattie Franklin	Dom. Sci. S.	Second	Columbus
Duval, Harding Hays	Dairy		Wellsburg, W. Va.
Dwyer, Horace Earl	Agr. S.	Second	Greenfield
Eckman, Otto Leo	Agr. S.	First	Winchester
Ensminger, Harriet Margaret	Dom. S.	Special	Columbus
Erven, Orrin William	Agr. S.	Second	Grand Rapids
Faurer, Lorenzo Donaldson	Agr. S.	First	Ridgeville
Ferguson, Ollie	Agr.	Second	Steubenville
Fisher, Milo Eddison	Agr. S.	Second	Chili
Folsom, James Alfred	Agr. S.	First	Franklin Furnace
Foster, Chester Glenn	Agr.	First	London
Foster, John Cook, Jr	Agr.	First	Columbus
Foster, Emma Warwick	Dom. Sci.	Second	Higbys
Fox, Louis Henry	Dairy		Garland
Frame, Mabel Florence	Dom. Sci.	Special	Washington
Frank, John Nickolas	H. & F.	First	North Amherst
Frink, Clarence Benjamin	Dairy		Lupton, Colorado
Galehouse, David William	Agr.	Fourth	Doylestown
Gault, Thomas Chambers	Dairy		Fernwood
George, Harry John	Agr. S.	First	Beaver Falls, Pa.
Gerdeman, John Fred	Dairy		Ottawa
Gibson, Herbert R	Dairy	Special	Camp Chase

Grau, Maud Elizabeth	Dom. Sci.	First	Lucas
Guy, Earl William	Agr. S.	First	Mechanicsburg
Hamilton, Frank Edward	Agr.	Third	Brownsville
Hamilton, Harry Hoge	Agr. S.	First	Brownsville
Hanna, Charles Mitchell	Agr. S.	Second	Tiro
Hanna, Hortie Leroy	Dairy		Garretsville
Harper, Merritt	Agr.	Fourth	Grove City
Hatfield, Clifford Christian	Agr.	First	Lebanon
Hathaway, Ralph	Agr.	First	Scipio Siding
Hayden, Cassius Clay	Agr.	Fourth	Oakdale
Herrick, Hobert C.	Agr.	First	Wellington
Hess, Flora Louise	Dom. Sci.	Special	North Columbus
Hill, Mamie Faye	Dom. Sci.	Third	Columbus
Hill, George Baxter	Agr. S.	Second	Piqua
Hollister, Ruth Amanda	Dom. Sci.	First	Galion
Holloway, Carrie	Dom. Sci.	Second	Columbus
Holt, David C	Dairy	Special	Galloway
Hoover, Clarence Boal	Agr.	Second	Columbus
Hoover, Susan Corwin	Dom. Sci.	Splecial	Columbus
Hosmer, Victor	Agr. S.	First	Parkman
Hudson, James Frank	Dairy		Rootstown
Hunt, Claude Percival	Dairy		Bennetts Corners
Hynes, Clifton Edwin	Dairy		Nacissa, Pa.
Innis, Byron Schofield	Agr. S.	Second	Wagram
Irwin, Arthur Milton	Agr. S.	Second	Parkman
Jefferson, John Howard	Agr. S.	First	Madison Mills
Jennings, Otto Emery	Agr.	Third	Olena
Johnson, Homer Edward	Dairy		East Orwell
Jones, Lloyd	Agr.	Second	Columbus
King, Michael Albert	Dairy		Jackson Center
Klein, Edith May	Dom. Sci.	Special	Columbus
Ladrach, Lewis Frederick	Dairy	Special	Rogersville
Langdon, Elmer	Agr. S.	Second	Sabina
Lanman, Faith Robinson	Dom. Sci.	Second	Columbus
Linberg, Char'es Guy	Dairy		Erie
Lindley, Lulu	Dom. Sci.	Special	Fredericktown
Long, Frank C.	H. & F.	Second	West Sonora
Long, Jean Paul	Agr.	First	Columbus
Mallow, Harry Campbell	Agr. S.	Second	Washington C. H.
Mangold, E. Frank	Agr.	First	Sonora
Mark, Clara Gould	Dom Sci.	First	Milo
Marshall, Ida	Dom. Sci.	Third	Hemlock
Morton, Charles Owen	Dairy		Burton
Mears, William Holt	Agr. S.	Second	Moscow
Meek, Elizabeth Laing	Dom. Sci.	Special	Columbus
Mellen, Otis E	Dairy		Streetsboro
Meyers, Ada Lucy	Dom Sci.	First	Columbus
Miller, Edward	Dairy		Springerton
Miller, Morris B.	Dairy		Springboro
Minns, Edward Russell	Agr. S.	First	Lodi
McAlister, Lee Paden	Agr. S.	Second	Thornville
McClellan, John Arthur	Dairy	Special	Cable
McClelland, Chester Arthur	Agr.	Second	Terrace Park
McLaughlin, Grace	Dom. Sci.	First	Columbus
McMahon, Mary Gertrude	Dom. Sci.	Second	Columbus
McMillan, Fred D	Dairy		Granger

Neill, Nelson Prentice	Agr.	Fourth	Venice
Nelson, Fred Walker	Agr. S.	Second	Salem Center
Neptune, Orrin Bird	Dairy		Loudonville
Newcomb, Howard Robinson	Dairy		Burton
Noice, Blaine G	Agr. S.	First	Ashville
Oliver, Robert Evin	Agr.	First	Chillicothe
Osborne, Harry Lester	Agr. S.	Second	Chardon
Paddack, Benjamin	Dairy		Hartwell
Patterson, Andrew Wylie	Dairy		New Concord
Perry, Elma Brooks	Dom Sci.	Fourth	Troy
Perry, John Cole	Agr.	Fourth	Columbia Station
Pessell, J. Bruce	Dairy		Fayette
Poindexter, Charles Cardoza	Agr.	Second	Parkersburg, W. Va.
Portman, Herbert Rudolph	Dairy		Birmingham
Postle, Stuart A	Dairy	Special	Camp Chase
Pratt, Jean Paul	Agr.	First	Huntington
Quiroga, Modesto	Agr.	First	San Luis, S. A.
Reyes, Julio	Agr.	First	Buenos Ayres, S. A.
Rogers, Truman	Agr. S.	First	Cardington
Ross, John Longbon	Dairy		North Eaton
Ruhl, George Pressley	Dairy		Fairview, Pa.
Ruhlen, La Motte	Agr.	Third	Plain City
Rutan, David William	Dairy		Mechanicsburg
Rutan, Hiram Edgar	Dairy		Mechanicsburg
Schwendeman, Frank Jacob	Dairy		Lowell
Senter, Pearl	Dom. Sci.	Special	Shepard
Sharp, Prentice D.	Agr. S.	First	East Liberty
Shaw, Edward Lee	Agr.	Third	Newark
Sheldon, Helen Griswold	Dom. Sci.	Splecial	Shepard
Shellabarger, Ira Garfield	Agr. S.	First	Garland
Sherwood, Mary Gertrude	Dom. Sci.	First	Columbus
Shields, Jeannette	Dom. Sci.	Special	Denver, Col.
Sigrist, John Larkum	Agr.	Fourth	Congress
Siler, Leonard Edgar	Dairy		W. Manchester
Smith, Wilford B	Agr. S.	Second	Chesterhill
Snyder, Addison Hogan	Agr.	Fourth	Tacoma
Spohn, Louis Narcissus	Dairy		Easton
Stahl, Price Ewing	Agr. S.	Second	Jewett
Steward, Alice Ione	Dom. Sci.	First	Columbus
Steward, Effie Edith	Dom. Sci.	First	Marcy
Sullivan, Fannie Augusta	Dom. Sci.	First	Rex
Tangemann, Clara Margaret	Dom. Sci.	First	New Bremen
Tarpning, Clifton Carmel	Dairy		Plain City
Thomas, Frank Leslie	Agr.	First	Chesterhill
Tobias, Deane Abram	Agr.	First	Bucyrus
Townsend, Melville West	Dairy		Motlinsville
Twitchell, Lee Downs	H. & F.	Second	Mansfield
Waite, Arthur Thompson	Dairy		North Ridgeville
Walker, Rolla E	Agr. S.	First	Attica
Wampler, Milton Eugene	Agr. S.	Second	Dayton
Washburn, Wayne	Agr. S.	First	Greenwich
Watkins, Salem Francis	Dairy		Granger
Weaver, Samuel James	Agr.	First	Leipsic
Weber, Sophia Francis	Dom. Sci.	First	Columbus
Welch, Fred Clair	Dairy		Ft. Wayne, Ind.
Wentz, John Earl	Agr. S.	Second	Bucyrus

West, James Clyde	Agr. S.	First	St. Paris
Wheeler, Thomas Leroy	Agr.	First	Chillicothe
White, Garret Brown	Agr.	First	Bucyrus
White, Jessie	Dom. Sci. S.	First	Columbus
White, Oscar Emil	Agr. S.	First	Payne
Whitehead, Albert	Agr.	Second	Pataskala
Williamson, Frances Glade	Dom. Sci. S.	Second	Columbus
Wilson, Sherman	Dairy		Clarksville
Wilson, Samuel Moore	Agr. S.	First	Bloomingburg
Wyman, Thomas Bright	H. & F.	First	Painesville
Yeazell, Frances Ward	Dom. Sci.	First	Berkeley, Cal.
Zehring, Edgar Levi	Agr.	First	Germantown
Zollinger, Jacob Christopher	Agr. S.	First	Thornville

SUMMARY

1900—1901

Graduate Students	8
Undergraduates	
Young Men:	
Four Year Courses	56
Two Year Courses	49
Course in Dairying	50
Young Women:	
Four Year Course	30
Two Year Course	17
Total	210

THESES OF THE CLASS OF 1901 OF COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

ADVANCED DEGREES

MASTER OF SCIENCE

IN AGRICULTURE

William Henry Gilmore, B. Sc. (Agr.) .... Basil
Thesis: Fluctuation in Prices of Farm Products in the United States.

FIRST DEGREES

BACHELOR OF SCIENCE

IN AGRICULTURE

Albert Frederick Conradi .... New Bremen
Thesis: A Study of Cecidomyidæ and Their Effects on Vegetation.

Merritt Harper... .... Grove City
Thesis: The Draft of the Plow.

Nelson Prentice Neill .... Venice
Thesis: A Study of the Agricultural Conditions of Ohio.

John Cole Perry...................................... Columbia Station
Thesis: A Comparison of the Structure and Durability of Modern Self-Binders.

Freelan Wilbert Schaeffer.................................. Columbus
Thesis: Pasteurization as a Means of Controlling Fermentation in Milk.

Addison Hogan Snyder .... Tacoma
Thesis: The Conformation of Market Draft Horses.

BACHELOR OF SCIENCE

IN DOMESTIC SCIENCE

Clara Armstrong .... Columbus
Thesis: History and Development of House Drainage.

Alice Bratton.. Columbus
Thesis: The Number and Kind of Bacteria Found in the Ohio State University Spring Water.

Mary Crawford .... Blaine
Thesis: Studies in Dietetic Menus for a Family of Five.

Florence Derby, B. Ph., 1896.......................... .... Columbus
Thesis: Bibliography of Foods.

Mary Dresbach .... Columbus
Thesis: The Saprophytic Fungi Injurious to Foods.

Elma Brooks Perry .... Piqua
Thesis: Bibliography of Domestic and Municipal Sanitation and Hygiene.

LIST OF ALUMNI AND OF THE EX-STUDENTS OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE SINCE 1892

Abbott, Arthur G., B. Sc. (Agr)	1899*	Medina, O., Farmer
Abbott, Carl B	(1898-1900)†	Medina, O., Farmer
Adams, Walter Lewis	(1897-1898)	Columbus, O., Adams' Express Company Employee.
Adams, Judson Jay	(1896-1897)	
Adcock, James G	(1899-1900)	Webb Summit, O., Stock Farmer
Allen, Glen Lloyd	(1898-1899)	Washington C. H., O., Farmer
Alpeter, John Edward	(1896-1897)	Winfield, O., Farmer and Carpenter
Alvord, Lewis Upton	(1896-1897)	
Anderson, J. B	(1897-1899)	Jewett, O., Teacher
Andress, Henry	(1898-1899)	Birmingham, Ohio
Armstrong, Edgar Manley	(1899-1900)	Zanesville, O., Farmer
Arnold, Fank W	(1899-1900)	Conneaut, O., Student Arts College, O. S. U.
Aten, Franklin Stewart	(1895-1897)	Nevada, O., Stock Farmer
Auld, Jay Mc	(1895-1896)	Iberia, O., Farmer
Aumend, Manuel Grant	(1891-1894)	Delta, O., Farmer and Teacher
Ayers, Samuel Dana	(1892-1895)	Orwell, O., Creamery Superintendent
Baer, Philip, Jr., B. Sc. (Agr.)	1897	Canal Dover, O., Dairy Farmer
Baker, William Hollister. B. Agr	1892	Farmersville, Mo., Farmer
Baldwin, Linus R	(1893-1896)	Youngstown, O., Machinist
Ball, F. C	(1895-1896)	Mt. Vernon, O., Farmer
Barker, Asbury Pletch	(1895-1897)	Rural Route, New Lexington, O., Farmer
Baughman, Chas. Francis	(1893-1894)	Springboro, O., Farmer
Bauman, Christian William	(1899-1900)	Axtel, Ohio, Swiss Cheesemaker, Assistant Dairy School, O. S. U.
Beal, John William	(1894-1895)	Dresden, O., Farmer
Beard, Ralph H	(1895-1896)	‡Bucyrus, O., Farmer
Beard, Alexander Wilson	(1897-1898)	‡New Buffalo, O., Creamery Operator
Beardsley, Ensign Newton	(1895-1896)	Greenford, O., Farmer
Beattie, Emma Miles	(1896-1897)	
Beattie, Lena Leota	(1896-1897)	Selma, Ala., Teacher and Missionary in Knox Academy.
Beattie, James Herbert	(1898-1899)	Zanesville, O., Student Beaver Falls, Pa.
Beattie, Rosalie Mae	(1898-1899)	Zanesville, O., Student New Concord, O.
Beattie, William Renick, B. Sc. (Hort.)	1894	M. Sc., 1897, Washington, D. C., Assistant in Horticulture, Division of Botany, U. S. Department of Agriculture.

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* Indicates student completed four years' course in the year and with the degree mentioned.

† Indicates student was in college the year or years mentioned, but did not graduate.

‡ Not heard from since January, 1900.

Beem, Alda Morgan	(1895-1896)	Jersey, O., Farmer
Beer, James Anderson	(1895-1896)	Ashland, O., Law Student O. S. U.
Bell, Nelson Hugh	(1891-1892)	
Bently, William P., B. Agr	1885	(B. A., 1890; M. A., 1893, Bethany College.) Missionary, 15 Miller Road, Shanghai, China.
Betts, Adelbert Hayes	(1898-1899)	Kinsman, O., Cheesemaker
Birdsall, James Warner	(1893-1896)	Green Spring, O., Farmer
Birney, Worthington H	(1892-1893)	Tappan, O., Farmer
Blackley, Helen	(1898-1899)	1361 Hunter St., Columbus, O., Student Columbus Kindergarten Training School.
Bloomfield, Lloyd M., B. Agr	1891	Paticea, Honduras, Cent. Amer., via New Orleans and Truxillo, Superintendent of Agriculture of the Colony of Valencia.
Boggs, Howard S	(1898-1899)	Kingston, O., Farmer
Bogue Earnest E., B. Sc. (H. & F.)	1894	M. Sc., 1896, Stillwater, Okla., Professor of Botany and Entomology.
Bone, John Hayes, B. Sc	1893	B. Sc. (Agr.), 1896, Shadeland, Ind., Farmer
Bowsher, Harry Dittmar	(1896-1897)	Buckland, O., Stock Farmer
Bragg, Putman Benjamin	(1897-1898)	Marietta, O., Dairy Herdman
Brandt, James McPherson	(1893-1894)	510-511 Johnston Bldg., Cincinnati, O., Lawyer.
Brechbill, B. H	(1895-1896)	Delanson, N. Y., Buttermaker
Breckenridge William Kemper	(1898-1900)	Watertown, O., Farmer
Brinker, Thomas W	(1897-1899)	Chatham, O., Farmer
Britton, John Carr, B. Sc. (Agr.)	1898	Mentor, O., State Horticultural Inspector, O. A. E. S.
Britton, William Miller	(1897-1898)	126 W. Lane St., Columbus, O., Student Electrical Engineering Course, O. S. U.
Brown, Sumner J	(1896-1897)	Bethel, O., Farmer
Brown, Alma Marie	(1896-1897)	
Brown, Aaron S	(1892-1893)	Circleville, O., Farmer
Brown, Alfred P	(1896-1897)	Dillon, Mont., Ranchman and Stock Raiser
Bryson, Julia Leona	(1897-1898)	1292 Hunter St., Columbus, O.
Bundy, Lyman E	(1898-1900)	Colerain, O., Fruit Growing and Gardening
Burkett, Charles William, B. Sc. (Agr.)	1895	M. Sc., 1898, Durham, N. H., Professor of Agriculture, New Hampshire State College.
Byers, William G	(1898-1900)	Lilly Chapel, O., Farmer
Caldwell, Robert Smith	(1894-1895)	
Cameron, John H	(1894-1895)	Damascus, O., Farmer
Candy, Ella Belle	(1898-1900)	Columbus, O.
Canfield, C. H., D. V. M., 1897	(1893-1894)	Kansas City, Mo., Assistant Meat Inspector, Bureau of Animal Industry, U. S. Dept. of Agr.
Carey, Nathan Harold	(1899-1900)	‡Guerneyville, O.
Carl, Harry W	(1898-1899)	Columbus, O., Employee Standard Milk Co.
Cass, Roscoe Faskin	(1896-1897)	Maumee, O., Dairyman
Clawson, Clarence A., B. Sc. (Agr.)	1899	D. V. M., 1900, 907 Penn St., Kansas City, Mo., Assistant Meat Inspector, Bureau of Animal Industry, U. S. Dept. of Agr.
Closson, Clayton D	(1896-1897)	Cave Creek, Ariz., Chemist
Clevenger, Charles	(1897-1899)	Fletcher, O., Student, Art College, O. S. U
Cline, Walter E	(1893-1895)	New Vienna, O., Farmer
Coates, Elsie	(1898-1899)	Columbus, O.
Coddington, Alva Leroy	(1894-1896)	Conover, O., Farmer
Coe, William D	(1895-1896)	Washington C. H., O., Creamery Proprietor

Comstock, Allen L.	(1897-1899)	Harveysburg, O., Creamery Operator
Condit, Lorenzo S.	(1894-1895)	Sunbury, O., Dairy Farmer
Conkle, Harry	(1895-1896)	Warsaw, O., Creameryman
Cotton, George Washington	(1899-1900)	Elyria, O., Dairyman
Covell, Jay Innam	(1896-1897)	
Craig, Moses, B. Sc.	1889	M. Sc., 1890, Cornell; M. Sc. (H. & F.), 1896, O. S. U.; Orangeport, Niagara County, N. Y., Teacher.
Cranz, Eugene Franz	(1892-1893)	Ira, O., Farmer
Cromley, Alvah Miller	(1892-1895)	Circleville, O., Prescription Clerk
Crowner, Delbert Alonzo, B. Sc. (Agr.)	1896	Wellsville, N. Y., Instructor in Buttermaking, O. S. U.
Cunningham, John F., B. Sc. (H. & F.)	1897	M. Sc., 1899, Cleveland, O., Associate Editor Ohio Farmer.
Dallas, John Thomas	(1893-1897, 1898-1900)	1231 N. High St., Columbus, O., Standard Milk Company.
Daniels, John Thomas	(1892-1894)	East Liverpool, O.
Darling, Everett Clyde	(1894-1896)	Nellie, O., Stock Farmer
Davenport, Chas. A.	(1892-1895)	Chillicothe, O., Employee B. & O. S. W. Railway.
Davis, Harriet Jane	(1899-1900)	
Davis, Vernon Hayes, B. Sc. (Agr.)	1900	Byesville, O., Post-Graduate Student Cornell University, Ithaca, N. Y.
Decker, Melville Clarence	(1894-1895)	Findlay, O., Farmer
Demorest, Herbert Russell	(1897-1900)	Grove City, O., Rural Delivery No. 2, Farmer.
Dennington, Wilbur Stanley	(1898-1899)	Kerrnoor, Pa., Buttermaker
Devol, William Stowe, B. Agr.	1886	Redland, San Bernardino County, California, Newspaper Reporter.
Dille, Chas. Wallace	(1896-1897)	Cleveland, O., Attorney at Law
Dodds, Austin Everett	(1894-1895)	Tranquility, O., Stock Farmer
Dovel, Boyton	(1898-1899)	75 E. State St., Columbus, O., Bookkeeper and Clerk.
Duncan, Donley	(1896-1897)	Ludlow, O., Farmer
Dunham, Alonzo H.	(1894-1896)	Dayton, O., Assistant Physician Dayton State Hospital.
Dunlap, Renwick W., B. Sc. (Agr.)	1895	Kingston, O., Farmer
Dunlap, John Hyde	(1895-1896)	Williamsport, O., Farmer
Durbin, Theodore	(1897-1898)	Danville, O., Cheesemaker
Durkee, Ray H.	(1896-1897)	North Eaton, O., Buttermaker
Dyar, Harry Spencer	(1896-1897)	Marietta, O., Tool Dresser in Oil Fields
Egbert, Knott C., B. Agr.	1890	Ithaca, N. Y., Post-Graduate Student Cornell University.
Ensign, Ernest Harry	(1898-1899)	Willoughby. O., Creameryman
Erf, Oscar, B. Sc. (Agr.)	1899	Champaign, Ill., Instructor in Dairying, University of Illinois.
Evans, R. W.	(1894-1895)	
Evans, William B.	(1892-1894)	Newark, O., Lumberman
Everett, S. J.	(1898-1899)	Parkman, O., Cheesemaker
Everett, William Russell	(1899-1900)	Gratiot, O., Creameryman
Ewart, John W.	(1899-1900)	Mogadore, O., Dairy Farmer
Falknor, E. A.	(1897-1898)	‡Troy, O., Yard Clerk, C., C., C. & St. L. R. R.
Farnsworth, Delmar J.	(1892-1893)	Waterville, O., Hardware Merchant
Fawcett, Arthur J.	(1893-1894)	405½ Exchange St., Akron, O., Agent Metropolitan Life Insurance Co. (Ind. Dept.)
Fearn, Nellie	(1897-1898)	

Fenner, Frank C.	(1891-1892)	Plymouth, O., Farmer
Finley, Aneta	(1898-1900)	Keene, O., Student Oread Institute, Worcester, Mass.
Finley, Thomas K.	(1897-1899)	Keene, O., Farmer
Fippin, Elmer Otterbein, B. Sc. (Agr.)	1900	Washington, D. C., Division of Agrostology, Department of Agriculture.
Fischer, Julius H. R. Paul, B. Agr.	1891	D. V. M., 1892, Columbus, O., Professor of Pathological Anatomy, O. S. U.
Fischer, Walter, B. Sc., 1897	(1894-1896)	Columbus, O., Fellow in Botany, O. S. U.
Fisher, Margaret Willmina		1293 Hunter St., Columbus, O., Stenographer for S. H. Black & Co.
Fisher, Elmer E.	(1897-1898)	Peru, Ind., Medical Student
Fitts, Rollin	(1894-1898)	276 Orchard St., Marion, O.
Flickinger, George A., B. Sc. (Agr.)	1898	Knoxville, Tenn., Instructor in Dairying, University of Tennessee.
Florence, George	(1891-1892)	Fox, O., Farmer
Flora, Charles Henry	(1898-1900)	Arcanum, O., Student O. S. U.
Forsythe, John B.	(1895-1896)	Rushsylvania, O., Buttermaker
Foster, Fred May	(1894-1896)	Died, Kingston, O., May 18, 1900
Foster, Michael Leander	(1899-1900)	Florence, O., Cheesemaker
Fox, Charles Pinckney, B. Agr., 1890	(1897-1898)	1117 S. High St., Akron, O., Analytical and Synthetical Chemist, Diamond Rubber Co.
Fox, Charles	(1897-1898)	Canal Dover, O., Florist and Gardener
Frazier, S H.	(1898-1899)	Nashport, O., Farmer
Garity, Benjamin Joseph	(1896-1897)	Mt. Vernon, O., Creameryman
Garner, Clarence Harris	(1897-1898)	
Gearing, B. L.	(1897-1898)	Bessie Mine, Telluride, Colo., Miner
Geckler, Chas. F.	(1891-1894)	Beetstown, O., Salesman in Cleveland, O.
Gephart, George Washington	(1894-1895)	Miamisburg, O., Farmer
Getz, F. L.	(1893-1894)	Grove City, O., Superintendent of Farm
Gibson, Herbert R.	(1896-1897, 1899)	Camp Chase, O., Assistant in Dairy School, O. S. U.
Gilmore, Walter Hayes	(1896-1899)	Basil, O., Farmer
Gilmore, Wm. Henry, B. Sc. (Agr.)	1899	Basil, O., Post-Graduate Student O. S. U., and Farmer.
Givens, David Albert	(1895-1897)	Glen Flora, Chippewa Co., Wis., Lumberman and Farmer.
Givens, Warren Whittier	(1897-1898)	DeKalb, Ill., Farmer
Givens, Warren Hayes.	(1897-1898)	
Gladding, M .M	(1897-1900)	Windsor, O., Farmer
Glathart, Harry Aaron	(1891-1892)	Findlay, O., Civil Engineer and Surveyor
Glock, Edward Hoover	(1896-1897)	
Goddard, Harford Bishop	(1896-1898)	Dunham, O., Farmer
Goodwin, Clare T.	(1896-1897)	Columbia Station, O., Dairy Farmer
Gove, Charles Frederick	(1897-1898)	Tescott, Kansas, Creameryman
Graber, Christian	(1899-1900)	Burton, O., Butter and Cheesemaker
Graham, John Edward	(1893-1894)	Raccoon Island, O., Fruit-Grower and Farmer.
Grant, A. M.	(1892-1893)	
Greenlee, Edward Hood	(1896-1897)	Died, Bridgeport, O., 1898
Greenlee, James Ross	(1898-1899)	Lansing, O., Farmer
Gregory, William Moody	(1897-1898)	
Griffith, W. I.	(1898-1899)	Galena, O., Farmer
Grimes, Charles Wilson	(1897-1898)	Springboro, O., Creamery Operator for French Bros. Dairy Co.
Grisier, Darcy B.	(1894-1895)	†Fayette, O., Groceryman
Haines, Edna Esther	(1897-1898)	Bloomingburg, O.

Hamilton, William Clarence	(1892-1894)	Gratiot, O., Farmer
Harn, George Upton, Jr	(1898-1899)	194 Wilson Ave., Columbus, O., Clerk for U. S. Weather Bureau.
Hard, Jesse M	(1898-1900)	Elmwood, O., Farmer
Harris, Melvin J	(1897-1898)	Garrettsville, O., Farmer
Harter, John Hoyt	(1892-1894)	Box 149, Delaware, O., Farmer
Harry, Willis Grant	(1896-1897)	Lancaster, Pa., Manager Lancaster Dairy Co.
Hawley, Wilbur	(1896-1897)	470 Miller Ave., Columbus, O., Motorman
Heath, Harry Roger	(1898-1899)	Big Horn Wyo., Creamery Operator
Heller, John	(1899-1900)	‡Ona, W. Va.
Henderson, Frank A	(1894-1897)	Died, McConnelsville, O., Sept. 27, 1898
Hershey, B. W	(1897-1899)	Easton, O., Stock Farmer
Hill, Walter Centennial	(1894-1895)	‡405 E. Town St., Columbus, O., Student Starling Medical College .
Hill, I. F. Reynolds, B. Sc. (H. & F.)	1896	Toledo, O., Office Woolson Spice Company
Hiltner, Philip	(1894-1895)	Landeck, O., Farmer
Hine, James Stewart, B. Sc. (H. & F.)	1893	Columbus, O., Assistant Professor in Entomology, O. S. U.
Hoff, Walter A	(1894-1897)	
Holderman, George Leland	(1891-1892)	Kingston, O., Farmer
Holt, David C	(1899-1900)	Galloway, O., Assistant in Creamery Laboratory, O. S. U.
Holmes, Ernest	(1898-1899)	Wooster, O., Assistant in O. A. E. S.
Hood, Sherman, B. Sc. (H. & F.)	1894	Meander, O., Market Gardener
Hoover, Louis C	(1898-1899)	Naperville, Ill., Student, Union Biblical Institute.
Horst, David H	(1897-1898)	Dalton, O., Farmer
Houston, Morris	(1897-1898)	Mechanicsburg, O., Farmer
Hoyt, Corydon Albert	(1891-1892)	Rock Creek, O., Farmer
Huff, Haines	(1894-1896)	‡4310 Beech Hill Ave., Cincinnati, O., Mail Clerk on B. & O. S.
Hugenholtz, Paul	(1897-1898)	‡Bussum, Netherlands, Bookkeeper
Hunt, Mary	(1897-1898)	Died, Ridott, Ill., December. 1898
Hunt, J. Horatio	(1899-1900)	‡Columbus, O.
Hunter, William, Jr	(1892-1893)	Woodfield, O., Farmer
Hulburt, H. C	(1896-1897)	
Hyatt, James Vernon	(1899-1900)	Augusta, O., Teacher and Farmer
Imes, Marion, B. Sc. (Agr.)	1899	Durham, N. H., Assistant in Dairying and Veterinary Medicine, New Hampshire State College.
Immell, Woodford Elias	(1898-1899)	Chillicothe, O., Farmer
Irvine, James	(1898-1899)	Richmond, O., Farmer
Jackson, Walter Charles	(1898-1899)	Almeda, N. Y., Carpenter
James, Harold Francis	(1899-1900)	19 Crystal Cove Ave., Winthrop, Mass.
Janton, Alexander	(1896-1897)	Columbus, O.
Johnson, Lisle M	(1895-1896)	Tiger, O., Farmer
Johnston, Frederick S., B. Sc. (Agr.)	1899	Durham, N. H., Assistant Professor of Agriculture, New Hampshire State College.
Jones, J. Lewis	(1898-1899)	Penfield, O., Farmer
Jones, Hosea Henderson	(1893-1894)	Radnor, O., Farmer
Joyce, Mary Gertrude	(1897-1898)	78 Smith Place, Columbus, O.
Karnes, John Miller	(1894-1895)	New Petersburg, O., Carpenter and Farmer
Kaylor, Rollie Washington	(1899-1900)	Bellefontaine, O., Buttermaker
Kelley, Galeria May Belle	(1898-1899)	
Kelley, William L	(1897-1900)	Newark, O., Dairyman and Farmer
Kellough, Jesse P	(1894-1895)	Washington C. H., O., Stock Farmer

Kent, Mary	(1898-1899)	
Kerr, Franklin H.	(1892-1893, 1895-1896)	Monclova, O., Farmer
Kiddle, F. W.	(1895-1896)	W. Williamsfield, O., Farmer
King, J. C.	(1898-1899)	
King, John Henry	(1895-1896)	Raccoon Island, O., Farmer
Kinney, Chas. C.	(1899-1900)	‡Yellow Springs, O
Kirk, Edward Cassius	(1898-1899)	Adario, O., Farmer
Kockers, Peter J.	(1893-1894)	
Kohls, Frank Joseph	(1892-1893)	Ottawa, O., Liquor Traffic
Kolbe, Lawrence Albert	(1897-1899)	North Amherst, O., Teacher
Kuenzli, James Arthur	(1893-1894)	Upper Sandusky, O., Farmer
Kynett, Albert Gardner	(1899-1900)	Youngstown, O., Farm Employee
Ladrach, Lewis F.	(1898-1899)	Ragersville, O., Cheesemaker
Ladrach, John J.	(1899-1900)	Birmingham, O., Butter and Cheesemaker, Asst. in Dairy School, O. S. U.
Lakin, Arthur	(1896-1897)	Station A, Columbus, O., Locomotive Fireman P., C., C. & St. L. R. R.
LaRue, Almon	(1891-1892)	
Laughlin, Joseph Gibson	(1893-1894)	Catawba, O., Student O. W. U.
Lawrence, Mortimer William	(1891-1894)	Cleveland, O., Vice-President of Lawrence Publishing Co.
Lee, Vernon W.	(1892-1893)	New Plymouth, O., Stock Breeder and Farmer.
Leonard, W. Elmer	(1891-1895)	South Webster, O., Bookkeeper
Leyda, Manton Odell	(1894-1895)	Pattersonville, O., Creameryman and Farmer
Liles, Frederick William	(1897-1899)	Collins, O., Stock Farmer
Linsley, Frank P.	(1899-1900)	Gallipolis, O., Farmer
Long, Frederick Pontius	(1897-1899)	Kingston, O., Farm Superintendent
Loomis, Humbert H.	(1891-1894, 1896-1899)	Deerfield, O., Farmer
Lutz, Ray	(1893-1895)	Fremont, O., Farmer
Mackey, James Earle	(1897-1898)	Richfield, O., Farmer
Manville, Herbert Emery	(1896-1897)	Pharisburg, O., Farmer
Marion, Walter J.	(1897-1899)	Columbus, O., with Columbus Merchandise Co.
Martin, John R.	(1891-1892)	Windfall, O., Farmer
Mason, Arthur D.	(1897-1899)	Wellington, O., Farmer
Mayers, W. L.	(1898-1899)	
Mays, James Wesley	(1893-1894)	South Point, O.
McCall, Arthur Gillett, B. Sc. (Agr.)	1900	Field Assistant, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C.
McClellan, Arthur	(1897-1899)	Cable, Cheesemaker, Asst. in Dairy School, O. S. U.
McClelland, Chalmer Kirk, B. Sc. (Agr.)	1898	Andover, O., Farmer
McClure, W. W.	(1898-1899)	Union City, Ind., Stock Farmer
McCormick, Earl Leander	(1896-1897)	Columbus, O., Salesman for Bancroft & Sheldon, Columbus, O.
McCullough, Clark W.	(1895-1897)	Steubenville, O., Farmer
McCullough, William Cleland	(1892-1893)	Bucyrus, O., Lawyer
McDaniels, Fred Kimball	(1896-1897)	13 San Juan de Letram, Mexico City, Mexico, Assistant Manager El Rosario Dairy Ranch.
McFarlane, Ellis	(1897-1898)	New Bedford, Pa., Gardener and Horticulturist.
McHenry, J. B.	(1895-1896)	Vineyard Hill, O., Teacher
McKay, Weldon Kickerson	(1897-1899)	New Burlington, O., Farmer
McKinley, Ira E.	(1899-1900)	Vaughnsville, O., Student

McLaughlin, Henry	(1893-1894)	
McLaughlin, Harrold	(1898-1899)	Smith Place, Columbus, O.
McManis, A. T.	(1893-1894)	‡1341 Dorr St., Toledo, O., Salesman Market Gardener.
McNaughten, Stewart Alexander	(1895-1896)	Reynoldsville, O., Farmer
McOwen, James, Jr.	(1893-1894, 1896-1900)	
McOwen, Thomas	(1897-1899)	Ovid, O., Student Eng. College, O. S. U.
Meacham, Van Floran	(1891-1892)	Atwater, O., Farmer
Meek, Eunice	(1898-1900)	Afton, O.
Meiche, Louis	(1898-1900)	Cleveland, O., Student in College of Veterinary Medicine, O. S. U.
Mendenhall, Eugene Warren	(1893-1896)	Eugene, O., Attorney at Law and Farmer
Mendenhall, John L.	(1894-1895)	Westland, O., Farmer
Mercer, Worley Deforest	(1891-1892)	†Duncan's Falls, O., Physician
Mergler, Jacob C.	(1898-1899)	Marietta, O., Student Marietta College
Merwine, Edson A.	(1896-1897)	Woodview, O., Dairy Farmer
Mesloh, Harry Smith	(1899-1900)	New Bremen, O., Farmer
Metcalf, Walter Charles	(1898-1899)	Temple, O., Farmer
Millar, Michael Seymour	(1895-1896)	
Miller, Merritt Finley, B. Sc. (Agr.)	1900	Ridpath, O., Post-Graduate Student Cornell University, Ithaca, N. Y.
Miller, Maynard Everett	(1899-1900)	Dodgeville, O., Creameryman and Farmer
Miller, Henry Alexander	(1898-1899)	Gypsum, O., Fruit Grower
Miller, Carl James, B. Sc. (Agr.)	1898	Franklin, O., Stock Farmer
Milliman, Prescott	(1893-1895)	Milan, O., Stock Farmer
Mills, W. C., B. Sc. (H. & F.)	1898	Curator Archæological Collection, Ohio State University, Columbus.
Miner, Chas. A.	(1898-1900)	Bristolville, O., Farmer
Minnich, Otto William	(1897-1898)	Zanesville, O., Marshall Route, Dairy Farmer.
Minnich, F. J.	(1897-1898)	North Amherst, O., Buttermaker
Montgomery, Frank	(1898-1899)	
Mooney, Charles Napoleon, B. Sc. (Agr.)	1900	Columbus, O., Field Assistant, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C.
Moorehead, Robert Henderson	(1896-1897)	
Morley, Ida Mae	(1896-1897)	
Morrow, John W.	(1893-1894)	Died, Bogart, O., October, 1898
Morrow, Clarence G.	(1895-1896)	Manila, P. I.
Mowry, Edward Philip	(1896-1897)	Monroeville, O., Manager Star Creamery
Mull, Ernest Clinton	(1898-1899)	Lebanon, O., Student Arts College, O. S. U.
Murphy, Farrah C.	(1894-1896)	Sunbury, O., Farmer
Murray, J. B.	(1898-1899)	Penfield, O., Butter and Cheesemaker
Murray, Edna Earl	(1899-1900)	Columbus, O.
Neale, Alvin S.	(1891-1892)	Rock, O., Dairy Farmer
Nelson, Fred Burgess	(1899-1900)	Coe Ridge, O., Student Eng. College, O. S. U.
Nettleton, Albert Warren, B. Sc. (Agr.)	1898	Medina, O., Farmer
Nettleton, Edward	(1898-1899)	Medina, O., Farmer
Newton, Sheldon Watrous	(1898-1899)	Boardman, O., Farmer
Nichelson, Charles	(1892-1893)	Plattsburg, O., Farmer
Nidy, A. V.	(1896-1897)	Greentown, O., Farmer
Notman, Walter	(1894-1895)	‡Deerfield, O., Cheesemaker and Farmer
Ohlemacher, John Jacob	(1897-1898)	‡Prout's Station, O., Farmer
Oliver, Chas. Ray	(1899-1900)	Pottersville, Pa.
Orton, Louise Taft	(1899-1900)	Columbus, O., Mrs. F. C. Caldwell
Osborn, Alice	(1898-1900)	Cadiz, O., Student Franklin College, New Athens, O.

Oswald, Rudolph	(1899-1900)	‡Aurora, O
Owens, Walter Raleigh	(1897-1898)	Van Wert, O., Engineer
Palmer, Mary Ella	(1897-1898)	2383 N. High St., Columbus, O.
Palmer, Jay	(1897-1899)	Penfield, O., Farmer
Parks, William C.	(1896-1897)	
Parrett, Noyes Marvin	(1892-1893)	‡Madison Mills, O., Farmer
Parson, John Strong	(1896-1898)	Rootstown, O., Farmer
Partridge, B. M.	(1897-1898)	Flint, O., Student Arts College, O. S. U.
Patterson, Mrs. George T.	(1897-1898)	
Patterson, William Adolphus	(1894-1895)	Died, Kensington, O., July 12, 1898
Patton, Robert L.	(1894-1895)	
Pemberton, Harvey Canmon	(1894-1895)	
Pennybacker, Marion Stone	(1891-1892)	Purcell, Indian Territory, Traveling Salesman.
Persing, Matthias James	(1894-1896)	Clyde, O., Truck and Fruit Grower
Peters, Francis	(1899-1900)	27 N. Ohio Ave., Columbus, O.
Pfarr, Philip Lewis, B. Sc. (Agr.)	1896	
Phillips, John C.	(1896-1898)	Bath, O., Cheesemaker
Phillips, John Howard	(1898-1899)	Died, Centerburg, O., November, 1898
Phillips, Josiah M.	(1891-1893)	Ayersville, O., Agency Work
Phinney, Chas. Amos	(1892-1893)	
Pierce, Benjamin M.	(1897-1899)	
Plumb, C. S.	(1895-1896)	Lafayette, Ind., Professor of Agriculture, Purdue University.
Pollock, Charles Hamilton	(1897-1898)	Mill Village, Pa., Dairy Farmer
Postle, Stuart A.	(1896-1899)	Camp Chase, O., Buttermaker Assistant in Dairy School, O. S. U.
Postle, Carlton David	(1898-1899)	Alton, O., Farmer
Postle, Florence	(1897-1899)	Camp Chase, O.
Powell, Earnest	(1891-1892)	Rural Route No. 1, Van Wert, O., Farmer
Price, William R.	(1896-1897)	Died, Mineral Ridge, O., April, 1899
Price, Homer C., B. Sc. (Agr.)	1897	M. Sc., Cornell, 1899, Ames, Iowa, Professor of Horticulture, Iowa State College.
Priest, Frederick, D. V. M., 1895	(1892-1893)	Newark, O., Veterinary Surgeon
Pugh, Stanley D.	(1891-1892)	
Randolph, Frank Monroe	(1894-1896)	Rural Route, New Lexington, O., Teacher and Farmer.
Rane, Frank William, B. Agr.	1891	M. Sc., Cornell, 1892; Durham, N. H., Professor of Horticulture, New Hampshire State College.
Rarick, Murray M., B. Sc. (Agr.)	1896	Jacksontown, O., Physician
Ream, Earl S.	(1897-1898)	Phoenix, Arizona, Dairyman at Arizona Experiment Station.
Reece, Chas. Elwood	(1894-1896)	Bucyrus, O., Stock Farmer
Reed, Oscar W.	(1894-1895)	Lebanon, O., Buttermaker
Reed, Jasper Robert	(1896-1897)	Blanchester, O., Dairyman
Reppert, Alda Cora	(1898-1899)	Columbus, O.
Reno, Mell Lewis	(1898-1899)	‡Hill P. O., Mercer County, Pa., Creamery Operator.
Rexroth, Royal A.	(1898-1899)	Bucyrus, O., Stock Farmer
Rice, Mabel Elise	(1898-1899)	105 Hubbard Ave., Columbus, O.
Richards, Don Arthur	(1899-1900)	Medina, O., Buttermaker
Richardson, Hamilton H., B. Agr.	1892	South Brooklyn, O., Farmer
Ridinger, John G.	(1897-1899)	Died, Kalida, O., June, 1899
Ridings, Jesse Owen	(1893-1894)	Goshen, O., Teacher and Farmer
Riggs, Earnest J., B. Sc. (H. & F.)	1895	M. Sc., 1896, Raccoon Island, O., Farmer
Riley, Valeria	(1896-1900)	Washington C. H., O.
Roadarmer, Harry	(1897-1898)	

Robb, Wyman Speer................(1897-1898)..New Concord, O., Agent Keystone View Co.

Roberts, John L..........(1894-1895, 1897-1899)....................Vaughnsville, O., Farm Manager

Rodegeb, Chas. A....................(1895-1896)........................Roslyn, Ill., Dairyman

Rogers, John Wesley................(1895-1896).............Bloomingburg, O., Carriagemaker

Rogers, Dwight Eugene............(1895-1896)....Grafton, O., Engaged by Elyria Stone Co.

Rood, Venious Ardie................(1893-1895)............................Larue, O., Farmer

Roscoe, Frank B....................(1893-1895)......................Greenwich, O., Farmer

Ross, Amos Loren..................(1897-1898)..Oneida, O., Co. H, 2d Infantry, U. S. Army, Manila, P. I.

Rubins, Frank ....(1896-1897)........................Kenton, O., Dairyman

Ruhlen, Frank, B. Sc. (Agr.).............1896..Columbus, O., Assistant in Agriculture, Ohio State University.

Rutan, Maida ....(1894-1895).........Mechanicsburg, O., Mrs. M. Bullard

Rutan, Benjamin Milton............(1893-1895)...........Marysville, O., Creamery Operator

Sanders, Boston C....................(1897-1898)...Steubenville, O., Fruit Grower and Farmer

Saum, John Lincoln.................(1891-1892)........................Antwerp, O., Farmer

Sayre, Eliza Morgan.................(1898-1899)....716 Neil Ave., Columbus, O., Musician, Mrs. Norris.

Schaadt, Martin ....(1894-1895)............Blue Mound, Kansas, Buttermaker

Schroeder, Glen Thomas...........(1895-1896)...

Scott, Edith ....(1899-1900)..............................Mt. Pleasant, O.

Scott, Ernest, B. Sc. (Agr.)..............1897..Columbus, O., Assistant Physician Columbus State Hospital.

Scott, Howard F....................(1896-1897).......................Fair Haven, O., Farmer

Schaeffer, Freelan Wilbert..........(1896-1900)..1231 N. High St., Columbus, O., Standard Milk Co.

Scroggie, James Hugh..............(1894-1895)..Olmstead Falls, O., Supt. of Public Schools

Shaffer, Jesse ....(1899-1900).....................Black Lick, O., Dairyman

Sharp, Edmond Maxwell...........(1896-1897)......1321 S. Main St., Akron, O., Bookkeeper

Shaw, F. C............................(1893-1894)...

Shaw, James C......................(1892-1894)......Newark, O., Stock Breeder and Farmer

Shellabarger, Marley R., B. Sc. (Agr.)...1897.........................Garland, O., Farmer

Shepard, Allen Day..................(1899-1900).....North Ridgeville, O., Creamery Operator

Shippee, Henry George.............(1898-1899)...

Shriver, Sarah Luella................(1896-1897)...

Shumaker, Bertram ....(1896-1897)..LeRoy, O., Buttermaker for Cottage Creamery, Cleveland, O.

Skiles, Blanch Gertrude............(1898-1900).................................... Shelby, O.

Slater, Burr H.......................(1892-1893)..................Chesterville, O., Pharmacist

Smith, William David...............(1897-1898)...

Smith, Elisha ....(1897-1898)..................................Beech City, O.

Smith, Leon D........................(1898-1899........Silo, O., Foreman Smith Creamery Co.

Solether, C. F........................(1898-1899)..Jerry City, O., Assistant Cashier Cygnet Savings Bank.

Spencer, Silas McLaren.............(1897-1898).........Chrome Hill, Md., Manager Creamery

Spiers, Chas. E......................(1893-1895).......Atwater, O., Stock Breeder and Farmer

Steward, Chas. Benjamin, B. Sc. (Agr.)..1900..Marcy, O., Farmer and Post-Graduate Student, O. S. U.

Stiers, V. T...........................(1899-1900)...

Stimmel, John Russell, Jr..........(1896-1897)..........................Reeses, O., Farmer

Stoughton, Charles Peters..........(1897-1898)...Males Center, N. Y., Gardener and Farmer

Stump, Mrs. Franklin Pierce........(1893-1894)................................ Convoy, O.

Stump, Franklin Pierce, B. Sc. (Agr.)....1892..........................Convoy, O., Farmer

Sweet, Smith E.......................(1894-1896)....................Mesopotamia, O., Farmer

Taylor, Fredric Wellington, B. Sc. (Agr.), 1900..Wooster, O., Assistant in Ohio Agricultural Experiment Station.

Taylor, Merrill S......................(1892-1894)...........................Urbana, O., Farmer

Taylor, Everett Burne...............(1897-1898)......New Albany, Student Law College, O. S. U.

Thomas, Elmer Ellsworth	(1899-1900)	Newark, O., Farmer
Thompson, Jay	(1896-1897)	Iloilo Panay, P. I., Clerk for Chief Surgeon, U. S. A.
Thompson, Benjamin Sells	(1898-1899)	22 S. Main St., Mansfield, Hardware Salesman.
Thompson, Edith Leontine	(1898-1899)	Huron, O.
Thompson, Joseph J	(1894-1895)	Cincinnati, O., Baldwin Piano Manufacturing Co.
Thompson, Frank McColgin	(1896-1897)	
Thornburg, C. E	(1897-1898)	Jonesboro, Ind., Gardener and Fruit Grower
Thorne, Bertram H	(1891-1892)	Wooster, O., Vegetable Forcing and Florist
Titus, Clarence H	(1894-1896)	Avon Beach, O., Farmer
Trowbridge, Warner Wesley	(1898-1900)	Painesville, O., Farmer
Twitchell, Lee	(1897-1898)	†Mansfield, O., Orchardist and Farmer
Tyler, Fred J., B. Sc. (H. & F.)	1900	Assistant in Botany. O. S. U.
Uncapher, J. D	(1897-1899)	Marion, O., Farmer
Uncapher, William H	(1895-1897)	Marion, O., Farmer
Vandament, Orin	(1898-1899)	Hamersville, O., Teacher and Farmer
Vermillion, Arthur H	(1894-1895)	Martin's Ferry, O., Box 21, Shaft Sinker
Vickery, John B	(1898-1899)	
Vine, Oliver Jacob	(1894-1895)	Lemoore, Cal., Creamery Operator
Waid, Clarence Wm., B. Sc. (H. & F.)	1898	Wooster, O., Assistant Horticulturist, O. A. E. S.
Wagner, W. Dow	(1892-1893)	Kenton, O., Hardware Clerk
Walker, Wallace J	(1892-1893)	Emerson, O., Died of Fever in Spanish-American War at Puerto Rico, 1899.
Ward, Harry Willliam	(1898-1899)	
Ward, Benjamin Nelson	(1891-1892)	
Ward, Philip Emerson	(1893-1895)	Willoughby, O., Supt. of Kirkland Schools
Warden, Leonard C., B. Sc. (H. & F.)	1899	Avon, O.
Weinman, George Henry	(1891-1892)	
Weisman, Laura Anna, B. Sc. (D. S.)	1900	Durham, N. H., Mrs. C. W. Burkett
Wells, James Russell	(1891-1892, 1894-1895)	Josiah, W. Va., Dairyman
West, Richard Sedgwick	(1892-1893)	
Westwater, W. G	(1893-1895)	‡429 East Broad St., Columbus, O., Clerk Westwater's Queensware Store.
Whiley, Thomas Boyce	(1896-1897)	Lancaster, O., Stock Farmer
Whipple, Charles Mantanion	(1897-1898)	‡Columbia Station, O., Dairy Farmer
White, Maurice	(1894-1895)	Rix's Mills, O., Farmer
Whitehead, Henry H	(1895-1897)	General Delivery, Columbus, O., Dairyman
Whiting, Charles	(1894-1896)	‡Omaha, Neb., Shoe Merchant
Whiting, Roy E	(1897-1898)	Austinburg, O., Farmer
Whitman, Charles Henry	(1898-1899)	Doylestown, O.
Whitney, Charles Albert	(1895-1896)	
Wilkin, W. W	(1897-1898)	New Lebanon, O., Farmer
Williams, Lee	(1891-1892)	‡Pataskala, O., Druggist
Williams, Gilbert Carl	(1893-1894)	
Wilson, J. W	(1895-1896)	‡New Concord, O., Buttermaker
Winkler, Herbert G	(1894-1896)	Hanging Rock, O., Market Gardener
Winspeare, Joseph Agar	(1893-1895)	Vickers, O., Dairy Farmer
Wise, Cyrus Newton	(1891-1892)	
Withoft, Clarence Warren	(1893-1894)	Fort Valley, Ga., Manager Albaugh Georgia Diamond and Union Fruit Companies, and Ohio Fruit Land Co.
Ziegler, Juan	(1892-1894)	

University Bulletin Series 6 Number 7

OHIO STATE UNIVERSITY

CATALOGUE OF THE

COLLEGE OF AGRICULTURE

AND

DOMESTIC SCIENCE

1902-1903

⁂

COLUMBUS
PUBLISHED BY THE UNIVERSITY

Entered at the Postoffice, Columbus, Ohio, as second-class matter

OHIO STATE UNIVERSITY

CATALOGUE OF THE

COLLEGE OF AGRICULTURE

AND

DOMESTIC SCIENCE

1902-1903

> "One of the wisest things this government ever did was to make ample provision for the great agricultural institutions in this land. We now have more than half a hundred of them to testify to the worth and sagacity of the Congress of these United States."—*President McKinley.*

COLUMBUS
Published by the University
May, 1902

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DAYS AND DATES

1902

Summer Session, Lake Laboratory, Sandusky..	June 15 to September 15.	
Graduate School of Agriculture	July 7 to August 1.	
Entrance Examinations (8 A. M.)	Monday, Tuesday,	September 22. September 23.
First Term begins—Registration Day	Tuesday,	September 23.
Lectures and Class-work begin	Wednesday,	September 24.
Meeting of Trustees	Wednesday,	September 24.
President's Annual Address	Friday,	September 26.
Thanksgiving Recess	Thursday, Friday,	November 27. November 28.
Latest Date for Filing Thesis Subjects	Monday,	December 15.
First Term ends	Wednesday,	December 24.

CHRISTMAS VACATION.

1903.

Second Term begins—Registration Day	Tuesday,	January 6.
University Day	Sunday,	February 22.
Meeting of Trustees	Wednesday,	April 1.
Second Term ends	Friday,	April 3.

SPRING RECESS.

Third Term begins—Registration Day	Wednesday,	April 8.
Field Day—Athletic Association	Saturday,	May 16.
Senior Vacation begins	Saturday,	May 23.
Competitive Drill—Cadet Battalion	Saturday,	May 23.
Memorial Day	Saturday,	May 30.
Latest Date for Presenting Theses	Friday,	June 12.
Final Examinations	Monday, to Friday,	June 15. June 19.
Latest Date for Filing Bound Copy of Thesis..	Friday	June 19.
Baccalaureate Sermon	Sunday,	June 21.
Entrance Examinations (8 A. M.)	Monday, Tuesday,	June 22. June 23.
Class Day	Monday,	June 22.
Meeting of Trustees	Tuesday,	June 23.
Alumni Day	Tuesday,	June 23.
COMMENCEMENT	Wednesday,	June 24.

SUMMER VACATION.

Summer Session, Lake Laboratory, Sandusky..	June 15 to September 15.	
Entrance Examinations (8 A. M.)	Monday,	September 21.
First Term begins—Registration Day	Tuesday,	September 22.
Lectures and Class-work begin (all colleges)	Wednesday,	September 23.
Meeting of Trustees	Wednesday,	September 23.
Annual Address by the President (11 A. M.)	Friday,	September 25.

BOARD OF TRUSTEES

1901 1902

		Term Expires.
*LUCIUS B. WING	Newark	May 13, 1902.
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FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY   OSCAR T. CORSON   JOHN T. MACK

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*Died February 1st, 1902.

FACULTY OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

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Professor of Agricultural Chemistry.

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Professor of Germanic Languages and Literatures.

ALBERT MARTIN BLEILE, M. D..218 King Avenue
Professor of Anatomy and Physiology.

WILLIAM ASHBROOK KELLERMAN, Ph. D..........................175 West Eleventh Avenue
Professor of Botany.

BENJAMIN LESTER BOWEN, Ph. D..775 East Broad Street
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JOSEPH VILLIERS DENNEY, A. B..230 West Tenth Avenue
Professor of Rhetoric and the English Language.

ALLEN CAMPBELL BARROWS, A. M., D. D....................................85 West Tenth Avenue
Professor of English Language.

WILLIAM THOMAS MAGRUDER, M. E..191 King Avenue
Professor of Mechanical Engineering.

DAVID STUART WHITE, D. V. M..........................West Fifth Avenue (near Arlington)
Professor of Veterinary Medicine.

HERBERT OSBORN, M. Sc..485 King Avenue
Professor of Zoology and Entomology.

FRANK EDWIN SANBORN, S. B..........303 West Eighth Avenue
Professor and Director of the Department of Industrial Arts.

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Professor of Architecture and Drawing.

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Professor of Economics and Sociology.

PAUL FISCHER, B. AGR., D. V. M..........250 Marshall Avenue
Professor of Pathological Anatomy.

CHARLES SMITH PROSSER, M. S..........114 West Tenth Avenue
Professor of Geology.

JOHN ADAMS BOWNOCKER, D. Sc..........1594 Neil Avenue
Professor of Inorganic Geology and Curator of Museum.

JOHN WRIGHT DECKER, B. AGR..........325 West Eighth Avenue
Professor of Dairying.

MINNIE AVA NELLIE STONER, B. Sc..........46 West Tenth Avenue
Professor of Domestic Science; in charge of the Department of Domestic Economy.

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Associate Professor Germanic Languages and Literatures.

CORNELIA PORTER SOUTHER..........325 West Eighth Avenue
Associate Professor of Domestic Art.

CHARLES A. BRUCE, B. A..........235 West Tenth Avenue
Associate Professor of Romance Languages.

THOMAS EWING FRENCH, M. E..........1458 Worthington Street
Associate Professor of Architecture and Drawing.

SEPTIMUS SISSON, B. Sc. V. S..........124 West Fourth Avenue
Associate Professor of Veterinary Medicine.

DAVID R. MAJOR, PH. D..........307 West Sixth Avenue
Associate Professor of Education.

WILLIAM LUCIUS GRAVES, A. M..........1313 Forsythe Avenue
Assistant Professor of Rhetoric.

CHARLES LINCOLN ARNOLD, M. Sc..........328 West Eighth Avenue
Assistant Professor of Mathematics.

JOHN H. SCHAFFNER, A. M., M. S..........40 West Tenth Avenue
Assistant Professor of Botany.

CHARLES BRADFIELD MORREY, A. B., M. D..........86 King Avenue
Assistant Professor of Anatomy and Physiology.

JAMES STEWART HINE, B. Sc..........26 West Fourth Avenue
Assistant Professor of Entomology.

GEORGE H. McKNIGHT, Ph. D. .... 312 West Seventh Avenue
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HERRICK C. ALLEN, LL. B. .... 275 East Gay Street
Assistant Professor of Public Speaking.

FRANCIS LEROY LANDACRE, B. A. .... 1578 Neil Avenue
Assistant Professor of Zoology.

FREDERICK EDWARD KESTER, M. E. in E. E. .... 1473 Neil Avenue
Assistant Professor of Physics.

THOMAS HARVEY HAINES, Ph. D. .... 307 West Sixth Avenue
Assistant Professor of Philosophy and Education.

JAMES EDWARD HAGERTY, Ph. D. .... 212 Tenth Avenue
Assistant Professor of Economics and Sociology.

JOHN DAVIS BATCHELDER, B. A., LL. B. .... "The Vendome"
Assistant Professor of Romance Language.

J. WARREN SMITH, M. Sc. .... 1422 Oak Street
Lecturer on Meteorology.

BURT BIDWELL HERRICK .... 167 Tenth Avenue
Instructor in Cheese Making.

WILLIAM H. RENCK .... 910 West Rich Street
Instructor in Pattern Making and Founding.

CHARLES P. CROWE .... 971 Highland Street
Instructor in Forging.

A. H. TUTTLE, B. A. .... 215 West Tenth Avenue
Instructor in American History and Political Science.

ALBERT EARL VINSON, B. Sc. .... 134 West Ninth Avenue
Instructor in Agricultural Chemistry.

THOMAS KENYON LEWIS, B. Sc. .... 1337 Summit Street
Instructor in Drawing.

SILAS MARTIN .... 1269 Dennison Avenue
Instructor in Drawing.

JOSEPH HENRY VOSSKUEHLER, M. E. .... 54 West Tenth Avenue
Instructor in Drawing.

BERTHHOLD AUGUST EISENLOHR, B. Ph. .... 380 West Eight Avenue
Instructor in Germanic Languages.

FRANK RUHLEN, B. Sc. .... University Grounds
Instructor in Zootechny.

MERRITT FINLEY MILLER, M. S. A. .... 252 West Eighth Avenue
Instructor in Agronomy.

DELBERT ALONZO CROWNER, B. Sc. .... West Jefferson
Assistant in Butter Making.

FRED J. TYLER, B. Sc. .... 43 East Ninth Avenue
Garden Assistant in Botany

MELVIN DRESBACH, M. Sc.......236 West Eighth Avenue
Assistant in Anatomy and Physiology.

VERNON HAYES DAVIS, M. S. A.......University Grounds
Assistant in Horticulture and Forestry.

RUDOLPH HIRSCH, B. Sc.......1060 South Front Street
Assistant in Agricultural Chemistry.

FRANK EDWARD HAMILTON.......University Grounds
Assistant in Agriculture.

JOHN C. BRIDWELL, B. A.......43 East Ninth Avenue
Fellow in Botany.

JOHN FRANCIS TRAVIS, B. A.......239 West Tenth Avenue
Fellow in Mathematics.

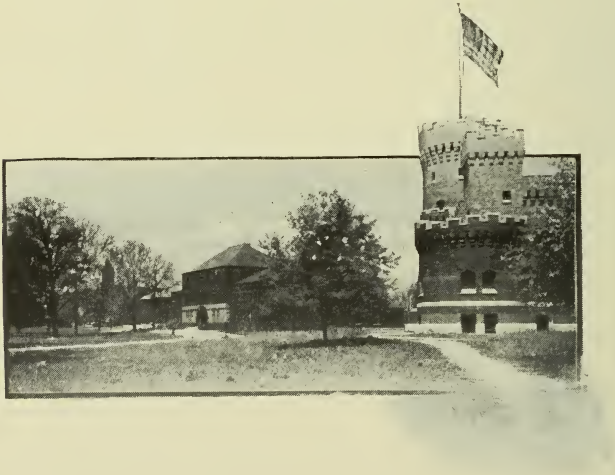
OTTO EMERY JENNINGS.......University Grounds
Florist.

OLIVE B. JONES.......53 Eleventh Avenue
Librarian.

CHRISTOPHER P. LINHART, M. D.......Gymnasium—"The Vendome"
Professor of Physical Education and Director of the Gymnasium.

CAPTAIN GEORGE L. CONVERSE, U. S. A.......23½ East State Street
Professor of Military Science and Tactics.

CLARA MAUD BERRYMAN.......1356 Neil Avenue
Associate Professor of Physical Education.



CAMPUS LOOKING WEST

THE UNIVERSITY

IT should be noted that the Ohio State University is divided into six colleges as follows:

The College of Agriculture and Domestic Science.
The College of Arts, Philosophy and Science.
The College of Engineering.
The College of Law.
The College of Pharmacy.
The College of Veterinary Medicine.

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry, and Bachelor of Science in Domestic Science; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, Bachelor of Science in Industrial Arts, and Bachelor of Science in Chemical Engineering or in Metallurgy; in the Course of Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College in Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each state an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefit of the act of endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of study as are related to agriculture and mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pleged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect, and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the College and the election of a Faculty of instruction and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878, the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the Institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education, and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy River, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds ; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High Street or the Neil Avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High Street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall and the Dormitories, will find the Neil Avenue cars more convenient.

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars.

The buildings of special interest to the College of Agriculture and Domestic Science are Townshend Hall, Horticultural Hall, Veterinary Hospital, Hayes Hall, Botanical Hall, Biological Hall, Orton Hall (Geological building ; contains also the Library), and the Armory and Gymnasium.

The University now has over one hundred instructors and thirty-eight departments of study, offers thirty distinct courses, all but one of which require two or more years for completion. Six of these courses are offered by the College of Agriculture and Domestic Science and are described in this catalogue.

TOWNSHEND HALL, OHIO STATE UNIVERSITY

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

The College of Agriculture and Domestic Science offers six distinct courses of study :

1. *A four years' Course in Agriculture.*
2. *A four years' Course in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science.*
6. *A two years' Course in Domestic Science.*

THE COURSE IN AGRICULTURE

About one-half of the students who have graduated from this course have engaged in farming while most of the others have become professors, instructors or experimenters in the agriculture colleges and experiment stations of the country, or have obtained employment in the various Bureaus of the United States Department of Agriculture. The plan of the Department of Agriculture at Washington, D. C., to receive graduates of the agriculture colleges as student assistants, has opened an important and attractive field for young men and one in which, at present, the demand is greater than the supply.

Still larger numbers, who have pursued the course for two or three years, have become successful farmers or farm superintendents. There is a growing demand in commercial agriculture for men thoroughly trained in both the practice of agriculture and the underlying sciences. For these positions, the training cannot be too rigid. The success of the men who have graduated from the course in agriculture demonstrates conclusively that it is well adapted for those who intend to become farmers, farm superintendents, instructors or investigators.

The officers of the College recognize the danger of a too special or technical training of under-graduate students in a subject having such a wide range and one requiring for its successful prosecution such breadth of view. A careful examination of the course as outlined on page — will show that about one-third of the time of the student during the four years is or may be devoted to Language, (English and foreign), History and Economics ; About one-third to pure science, and one-third to technical or professional training. Electives in the senior year allow the student, if he chooses, to specialize in Zootechny (Animal Husbandry), Agronomy (Plant production or field agriculture), Dairying, or Agricultural Chemistry.

The Course in Agriculture is one of a number of regular four year collegiate courses in the University. This one is designed not only to make specially trained agriculturists, but also educated men. The course presupposes that a young man has had a High School training or its equivalent and that he has had the training in farm matters that necessarily comes to a young man who has lived on a farm. It supplements this training but does not displace it. The technical training in this course consists in those matters which years of experience in teaching have shown are either lacking or most necessary. Young men from the cities are entering this course, as they should do if they expect to engage in agricultural pursuits, but it should be understood that the Course in Agriculture does not, except incidentally, supply that training in farm matters which comes from actual life upon the farm. Such a course could be readily planned but it would waste the valuable time of nine-tenths of the students who now enter the course. A fuller understanding of the course may be obtained by comparing the outline below with the departmental courses of study beginning on page 25. It will be seen that the general education and training is broad, and liberal and that the technical or professional training is thorough and exact.

No man or woman is thoroughly well educated until he or she has been taught both to do and to think. Both faculties are necessary and each assists the other. Experience and reason, however, teach that the students who enter the Course in Agriculture have been better trained in doing than in thinking. With them manual training is not as necessary as an educational factor as with students from the cities. On the other hand, special emphasis is laid on training the faculties of observation, reason and judgment. It should be understood, however, that the laboratory methods and facilities are most thorough and complete in all scientific and technical courses, giving a training which is impossible to obtain merely from books.

The Course in Agriculture leads to the degree of Bachelor of Science in Agriculture.

OUTLINE OF THE COURSE IN AGRICULTURE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	4½	Agr'l Chemistry (8) Organic.	4½	Agr'l Chemistry (9) Applications.	6
Botany (6) Physiological.	4½	Botany (7) Economic.	4½	Botany (8) Vegetable Pathology.	6
Shopwork (2)	3	Shopwork (1)	3		
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
Zoology (1) Invertebrate.	3½	Zoology (1) Invertebrate.	3½	Zoology (1) Vertebrate.	3½
Cadet Service.*		Gymnasium.		Cadet Service.	

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*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' Cadet Service as a condition of graduation. Students physically incapacitated for Cadet Service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR

REQUIRED.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (28) Breeds of Live Stock.	4½	Agriculture (29) Breeds of Live Stock.	4½	Agriculture (30) Principles of Breeding	4½
Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
Horticulture (1) Elements.	4½	°Shopwork (2)	3	Horticulture (3) Plant Propagation.	4½
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology.	2½	Zoology (4) Economic Entomology	2½	Zoology (4) Economic Entomology	2½
Cadet Service		Gymnasium		Cadet Service	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4½	Agriculture (12) Soils.	4½	Agriculture (13) Crops.	4¼
				Drawing (16)	3
Geology (2) General.	5	Geology (5) Economics.	3½	Astronomy (3) Meteorotogy.	2
Vet. Medicine (28) Anatomy.	4½	Vet. Medicine (29) General Pathology.	4½	Vet. Medicine (30) Special Pathology.	4½
†French (1) Elementary. †German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4

FOURTH YEAR

REQUIRED

American History (1) U. S. Political. or Economics (1) Political Economy	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3
Thesis	2	Thesis	2	Thesis	2

Eight hours per week through the year ; chosen from any of the following courses :

‡Agriculture (14) Animal Mechanics.	4½	§ Agriculture (26) Zootechny.	3½	Agriculture (16) Rural Economics.	4
Agriculture (19) Agronomy.	4	Agriculture (20) Agronomy.	4	Agriculture (21) Rural Engineering.	4
Agriculture (22) Dairying.	4	Agriculture (15) Dairying	4	Agriculture (25) Dairying	4 4
*Agr'l Chemistry (6) Laboratory.	4	Agr'l Chemistry (6) Laboratory.	4	Agr'l Chemistry (6) Laboratory.	4
Vet. Medicine (24)	3	Vet. Medicine (18)	3	Vet. Medicine (18)	3

ELECTIVE

Four hours a week through the year chosen from any of the courses given in any of the Colleges of the University upon which the student is qualified to enter, except the College of Law.

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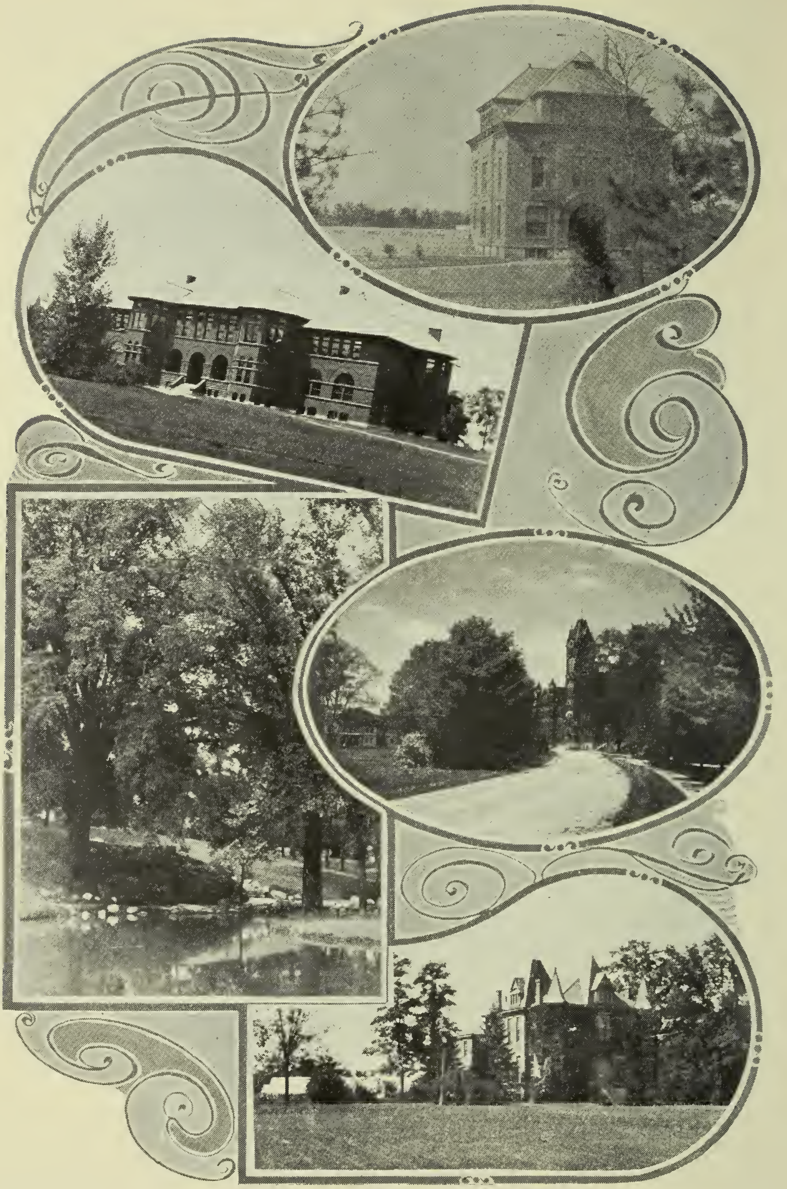
† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

° After 1902-1903, Drawing (10) 3.

‡ After 1902-1903, Agriculture (31) 4.

* In case a student intends to elect Agricultural Chemistry (6) 4, and Agriculture (19), (20), and (21) 4, he may elect Agricultural Chemistry 5 hours in place of Veterinary Medicine (28), (29), and (30) 4½.

§ After 1902-1903, Agriculture (32) 4.



CHEMICAL HALL
THE SPRING

HORTICULTURAL HALL
UNIVERSITY HALL
BOTANICAL HALL

THE COURSE IN HORTICULTURE AND FORESTRY

Horticulture and Forestry are rapidly developing arts. Their successful practice, like that of other arts, is largely dependent upon science.

Chemistry, Physics, Botany, Geology, Entomology and other sciences, are the natural basis of a sound practical knowledge of those things with which the fruit culturist, gardener, nurseryman and forester have to deal.

While the sciences may teach much regarding the origin and growth of plants, it does not teach how to select varieties, how to propagate, transplant, cultivate, fertilize, prune, or what is even more essential, how to harvest and market the product to the best advantage.

All the science in the world, while it will signally help, cannot of itself make a good fruit culturist, florist or landscape gardner.

Science and Art, theory and practice should go hand in hand.

This course was established to meet a growing demand for special training. It seeks to ground the student in those sciences that are fundamental, and to give a thorough drill in all methods of plant propagation and the more technical branches of horticulture and forestry.

The forcing of winter vegetables and the cultivation of the finer products of the garden and orchard are rapidly extending.

Commercial floriculture is developing with marked rapidity, and forestry is engaging the attention of the thoughtful as never before. For earnest, enterprising young men and women, horticulture and forestry in their various branches, offer as large a reward for intelligent, well directed effort as any other pursuit or profession.

The Course in Horticulture and Forestry leads to the degree of Bachelor of Science in Horticulture and Forestry.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	4½	Agr'l Chemistry (8) Organic.	4½	Agr'l Chemistry (9) Applications.	6
Botany (6) Physiological.	4½	Botany (7) Economic.	4½	Botany (8) Vegetable Pathology.	6
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
Shopwork (2)	3	Shopwork (1)	3		
Zoology (1) Invertebrate.	3½	Zoology (1) Invertebrate.	3½	Zoology (1) Vertebrate.	3½
Cadet Service		Gymnasium		Cadet Service	

SECOND YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Horticulture (1) Elements.	4½	†Shopwork (2)	3	Horticulture (3) Plant Propagation.	4½
Agr'l Chemestry (4) Laboratory	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology	2½	Zoology (4) Economic Entomology	2½	Zoology (4) Economic Entomology	2½
*French (1) Elementary. *German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4
Cadet Service		Gymnasium		Cadet Service	

THIRD YEAR

REQUIRED

Horticulture (5) Varieties of Fruit.	4½	Horticulture (6) Principles of Fruit Culture.	4½	Horticulture (7) Small Fruits and Spraying.	4½
Agriculture (11) Farm Equipment.	4½	Agriculture (12) Soils.	4½	Agriculture (13) Crops.	4½
				Astronomy (3) Meteorology.	2
				Drawing (16)	3
Geology (2). General.	5	Geology (5) Economic.	3½	Zoology (3) Economic Entomology	2½
French (2) or German (4)	4	French (2) or German (4)	4	French (2) or German (4)	4

FOURTH YEAR

REQUIRED

Horticulture (8) Elements of Floriculture	2½	Horticulture (9) Com. Floriculture	2½	Horticulture (10) Home Floriculture.	2½
Horticulture (11) Arboriculture.	2½	Horticulture (12) Forestry and Sylviculture.	2½	Horticulture (13) Landscape Gardening	2½
American History (1) U. S. Political. or Economics (1) Political Economy	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Eight hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except the College of Law.

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*Where credit is received for Elementary French or German, French (2) 4 or German (4) 4 is required.

† After 1902-1903, Drawing (10) 3.

THE SHORT COURSE IN AGRICULTURE

The Short Course in Agriculture is a two years' course, the first year of which is made up largely of studies preparatory either to the second year of the short course or the first year of the four years' course in Agriculture or in Horticulture and Forestry. While believing that the four years' course is none too long for the students who expect to engage in agricultural pursuits, yet it is recognized that there are many students whose circumstances make it impossible to take a four years' collegiate course in Agriculture, and yet who are anxious and would be greatly benefited by taking a less extended training for their life work.

This course is especially desirable for students of rather mature age. The Short Course in Agriculture also enables students who lack the training to enter the four years' course in Agriculture or in Horticulture and Forestry to make up in large part such deficiency. A considerable number of students in these advanced courses have formerly been students of the short course. This course contains as thorough instruction in Agriculture, Animal Industry, Dairying, Horticulture, (including Fruit Culture, Vegetable Gardening and Floriculture) and Forestry, Veterinary Medicine, Economic Entomology and the Sciences underlying these subjects as the time will admit. The second year contains optional work so that it is possible for students to specialize in Horticulture, Agriculture or Animal Industry and Dairying.

No degree is given on the completion of the Short Course in Agriculture but a certificate is issued stating fully the work done.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	4½	Agr'l Chemistry (8) Organic.	4½	Agr'l Chemistry (9) Applications.	6
Mathematics (1) Algebra.	5	Mathematics (3a) Geometry.	5	Botany (1) Elementary.	5
Physics (1) Elementary.	5	Physics (1) Elementary.	5	Geology (1) Physiography.	5
Shopwork (2)	3	Drawing (10) Mechanical.	3	Physiology (2) General.	3
Cadet Service		Gymnasium		Cadet Service	

SECOND YEAR

Not less than 15 hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agriculture (28) Breeds of Live Stock	4½	Agriculture (29) Breeds of Live Stock	4½	Agriculture (30) Principles of Feeding	4½
Agriculture (11) Farm Equipment	4½	Agriculture (12) Soils	4½	Agriculture (13) Crops	4½
Agriculture (22) Dairying	4	Agriculture (15) Dairying	4	Agriculture (25) Dairyng	4
Agriculture (31) Feeding	4	Agriculture (32) Hygiene and Management	4	Agriculture(16) Rural Economics	4
Horticulture (1) Elements	4½	Horticulture (2) Greenhouse Construction and Management	4½	Horticulture (3) Plant Propagation	4½
Horticulture (5) Varieties of Fruit	4½	Horticulture (6) Principles of Fruit Culture	4½	Horticulture (7) Small Fruits and Spraying.	4½
Vet. Medicine (28) Anatomy	4½	Vet. Medicine (29) General Pathology	4½	Vet. Medicine (30) Special Pathology	4½
		Shopwork (1)	3	Zoology (7)	3
		Physiology (6)	2		
Cadet Service		Gymnasium		Cadet Service	

THE COURSE IN DAIRYING

The Course in Dairying is established to meet the wants of those who have neither the time nor means for the above extended courses. It is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and contents of butter fat; the use and care of centrifugal separators and other dairy devices; the making of butter and cheese by the most improved methods; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock; the diseases of the cow; the chemistry of milk; the effect of bacteria and other agents upon milk and its products; the care of boilers and engines and similar subjects.

The Course in Dairying begins the first Tuesday in January; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."

OUTLINE OF THE COURSE IN DAIRYING

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making. — Two hours each week. Lectures and recitations and laboratory work.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Four hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and Laboratory practice.

Veterinary Medicine (17). Diseases of the Cow.—Three hours each week.

Mechanical Engineering (26). Steam Machinery.—One hour each week.

THE COURSES IN DOMESTIC SCIENCE

Five years ago, the Ohio State University recognized the demand for a broader education for young women, by introducing a course in Domestic Science.

The course was planned for no one class of women; not particularly for city or country girls, but in the hope that it might appeal to the most womanly side of all women. The desire was, and is, that by the practical and scientific study of home problems, women shall come to see more in household duties and home making than a mere routine; to recognize that Economics has its foundation in domestic relations; that Science is of great importance in all that pertains to right living; that Art and Ethics have no higher use than to purify and beautify every day subjects; and that the history and literature of the past have direct bearing upon the present. In other words, the authorities believed that by practically applying the pure sciences and arts to domestic life, our women should be better able to build ideal homes and an ideal nation.

The studies pursued in the Department of Domestic Economy, while closely affiliated, naturally group themselves first about the sciences and later about the arts, and for convenience, such work as that with Food Economics, Dietetics, History and manufacture of food, Sanitation and Hygiene, which directly makes demands along scientific lines, is classed as Domestic Science, and the work made possible by the wise acceptance of scientific laws, and by a general knowledge of the culture of past ages; that is, the work of developing beautiful and harmonious surroundings, is classed as Domestic Art.

The College offers two courses in this work: A two years' course planned for those who can give but a limited time to University training, and a four years' course, requiring a more advanced standing for entrance and leading to the degree of Bachelor of Science in Domestic Science.

As outlined farther on the lectures and laboratory work dealing particularly with Domestic Economy, require about one-third of the schedule time during the last three years of the long course; the first year and the remaining thirteen or fourteen hours required during each term of the second, third and fourth years, are devoted to allied University studies.

The equipment of the Department has been carefully selected and is adequate for thorough and conscientious work. Every effort is being made to develop the course along broad and safe lines, and the large number of students who have chosen so new a course, and the unflagging interest evinced by them, betokens the success of the undertaking.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1) Principles	4½	Agr'l Chemistry (8) Organic	4½	Agr'l Chemistry (9) Applications	4½
Botany (12) Physiological	3½	Botany (12) Economic	3½	Botany (12) Vegetable Pathology	3½
Drawing (1)	3	Drawing (1)	3	Drawing (1)	3
Rhetoric (1) and (21) English Composition	2½	Rhetoric (1) and (21) English Composition	2½	Rhetoric (1) and (21) English Composition	2½
Zoology (1) Invertebrate	3½	Zoology (1) Invertebrate	3½	Zoology (1) Invertebrate	3½
Hygiene and Phys. Training		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory*	5	Agr'l Chemistry (4) Laboratory*	5	Physiology (3) Chemical Physiology	3
				Physiology (10)	2
Domestic Economy (1)	5	Domestic Economy (2)	5	Domestic Economy (3)	5
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
†French (1) Elementary †German (1) Elementary or Spanish (1) Elementary	4	French (1) Elementary German (1) Elementary or Spanish (1) Elementary	4	French (1) Elementary German (1) Elementary or Spanish (1) Elementary	4
Hygiene and Phys. Training		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

THIRD YEAR

REQUIRED

Domestic Economy (4)	5	Domestic Economy (5)	5	Domestic Economy (6)	5
Drawing (20) Mechanical	1½	Drawing (15) Architectural	1½	Drawing (15) House Designing	1½
French (2) or German (4)	4	French (2) or German (4)	4	French (2) or German (4)	4

Any two of the following studies :

English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Economics (1) Political Economy	3	Economics (1) Political Economy	3	Economics (1) Political Economy	3
Education (1)	3	Education (1)	3	Education (1)	3
European History (1)	3	European History (2)	3	European History (3)	3
American History (1) U. S. Political	3	American History (1) U. S. Political	3	American History (1) U. S. Political	3

FOURTH YEAR

REQUIRED

Domestic Economy (7)	4	Domestic Economy (8)	4	Domestic Economy (9)	4
Horticulture (8) Elements of Floriculture	2½	Horticulture (9) Window Gardening	2½	Horticulture (10) Home Floriculture	2½
Zoology (5) Entomology	3	Domestic Econo'y (11) Food Economics	2½	Domestic Econo'y (12) Household Sanitation	2½
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Six hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except in the College of Law.

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*Specific laboratory work will be provided for students in this course, where necessary.

†Where credit is received for elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

OUTLINE OF THE SHORT COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1) Principles	4½	Agr'l Chemistry (8) Organic	4½	Agr'l Chemistry (9) Applications	4½
Physics (1) Elementary	5	Physics (1) Elementary	5	Botany (1) Elementary	5
French (1) German (1) or Spanish (1)	4	French (1) German (1) or Spanish (1)	4	French (1) German (1) or Spanish (1)	4
Drawing (1)	3	Drawing (1)	3	Drawing (1)	3
Hygiene and Phys. Training		Hygiene and Phys. Train.			

SECOND YEAR

REQUIRED

Domestic Economy (1)	5	Domestic Economy (2)	5	Domestic Economy (3)	5
Domestic Economy (4)	5	Domestic Economy (5)	5	Domestic Economy (6)	5

ELECTIVE

Not less than seven hours per week chosen from the following courses, subject to the conditions named under "Departments of Instruction."

Drawing (20)	1½	Drawing (15)	1½	Drawing (15)	1½
Botany (12) Physiological	3½	Botany (12) Economic	3½	Botany (12) Vegetable Pathology	3½
Education (1)	3	Education (1)	3	Education (1)	3
English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Horticulture (8) Elements of Floriculture	2½	Horticulture (9) Window Gardening	2½	Horticulture (10) Home Floriculture	2½
Zoology (1) Invertebrate	3½	Zoology (1) Invertebrate	3½	Zoology (1) Vertebrate	3½
Rhetoric (1) and (21)	2½	Rhetoric (1) and (21)	2½	Rhetoric (1) and (21)	2½
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
European History (1)	3	European History (2)	3	European History (3)	3
American History (1)	3	American History (1)	3	American History (1)	3

A WINTER SCENE ON THE CAMPUS

FARM BUILDINGS, OHIO STATE UNIVERSITY

JERSEY HERD, OHIO STATE UNIVERSITY

THE DEPARTMENTS OFFERING INSTRUCTIONS IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

To determine relation and sequence of studies, consult outlines of College courses beginning on page 14.

AGRICULTURE.

Townshend Hall.

ZOOTECHNY AND RURAL ECONOMICS.

Professor Hunt, Mr. Ruhlen.

28. **Breeds of Live Stock.** Lectures and recitations, Monday, Thursday and Friday, fourth hour, upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum Wednesday afternoon (1) in scoring and judging live stock. Credit four and one-half hours. First term.

29. **Breeds of Live Stock.** Lectures and recitations, Monday, Tuesday and Wednesday, first hour, upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum Wednesday afternoon in scoring and judging live stock. Credit four and one-half hours. Second term.

30. **Principles of Breeding.** Lectures and recitations Monday, Tuesday and Wednesday, first hour, upon the laws of heredity and their practical applications. Practicum Wednesday afternoon in scoring and judging live stock. Credit four and one-half hours. Third term.

31. **Stock Feeding.** Lectures and recitations Monday, Tuesday, Thursday and Friday, third hour, upon the laws of nutrition, the character of food stuffs, and the methods of feeding different kinds of domestic animals. Considerable practice is given in calculating digestibilities, nutritive ratios, and feeding standards. Credit four hours. First term.

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(1) Afternoon periods are from one to four o'clock.

STUDENTS JUDGING PERCHERONS LOANED BY McLAUGHLIN BROS., Columbus, Ohio

Cotswold, Oxford, Hampshire, Cheviot, Shropshire, Southdown, Delaine, Amer. Merino.
D. B. Watt & Son, Xenia, Ohio. D. H. Cherry, Xenia, Ohio. J. C. Price, Harrisburg, Ohio. R. D. Williamson, Xenia, Ohio.
J. C. Williamson, Xenia, Ohio. Ed. S. Foust, Xenia, Ohio. R. C. Watt, Xenia, Ohio. R. D. Williamson, Xenia, Ohio.
STUDENTS JUDGING SHEEP LOANED BY OHIO BREEDERS

32. **Hygiene and Management.** Lectures and recitations, Monday, Tuesday, Thursday and Friday, third hour, upon the principles of hygiene and their application to the management of domestic animals. Credit four hours. Second term.

8. **Breeds of Live Stock.** Lectures and recitations, Monday, Tuesday and Wednesday, first hour, upon the history characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum Friday afternoon in scoring and judging live stock. Credit four and one-half hours. First term.

9. **Principles of Breeding.** Lectures and recitations Monday, Tuesday and Wednesday, fourth hour, upon the laws of heredity and their practical applications. Practicum Friday afternoon in scoring and judging live stock, and in writing and tracing pedigrees. Credit four and one-half hours. Second term.

10. **Stock Feeding and Hygiene.** Lectures and recitations Monday, Tuesday and Wednesday, fourth hour, upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum Friday afternoon in calculating digestibilities, nutritive ratios and feeding standards. Credit four and one-half hours. Third term.

14. **Animal Mechanics and Exterior.** Lectures and recitations Monday, Tuesday and Wednesday, second hour, upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum Thursday afternoon in measuring animals and testing the value of given measurements for given purposes. Credit four and one-half hours. First term.

26. **Stock Judging and Management.** Lectures and recitations Monday and Tuesday, third hour. Practicum Thursday afternoon. Credit three and one-half hours. Second term.

16. **History of Agriculture and Rural Economics.** Lectures and recitations Monday, Tuesday, Thursday and Friday, fourth hour, upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Credit four hours. Third term.

5. **Dairy Farming.** Lectures Thursday and Friday, third hour, upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum Saturday, third and fourth hours, in scoring and judging live stock, writing pedigrees and calculating feeding standards. Credit three hours. Second term.

FARM ENGINEERING, OHIO STATE UNIVERSITY

SOIL PHYSICS LABORATORY, OHIO STATE UNIVERSITY

AGRONOMY AND FARM EQUIPMENT.

PROFESSOR HUNT, MR. MILLER.

11. **Farm Equipment.** Lectures and recitations Monday, Tuesday and Wednesday, second hour, upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum Thursday or Friday afternoon in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. Credit four and one-half hours. First term.

12. **Soils.** Lectures and recitations Monday, Tuesday and Wednesday, second hour, upon the origin, formation, kinds and physical properties of soils and their improvements by cultivation, fertilization, drainage and irrigation. Practicum Thursday or Friday afternoon or Saturday morning in laboratory testing physical properties of several soils; determining the relation of soils to heat, moisture, air and fertilizers, and making mechanical analyses. Credit four and one-half hours. Second term.

13. **Farm Crops.** Lectures and recitations Monday, Tuesday and Wednesday, second hour, upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum Thursday or Friday afternoon with growing and dried specimens of crops, including grasses, clovers and other forage crops. Credit four and one-half hours. Third term.

19. **Agronomy.** Lectures and recitations Friday, second hour, on the physical properties of soils; the relation of soils to heat, air and moisture; the effect of fertilizers on soil structure and fertility; consideration of practical methods of tillage as affecting crop producing power of the soil. Laboratory and field experiments Monday and Tuesday afternoons. Credit four hours. First term.

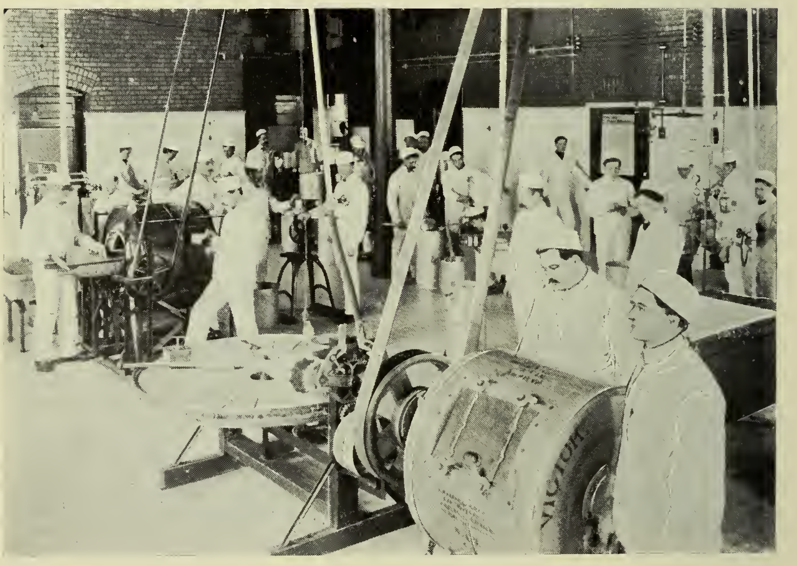
This course must be preceded by course (12).

20. **Agronomy.** Lectures and recitations Friday, second hour, on: (a) the effect of climate, soil, and markets on the distribution and adaptation of farm crops in the United States, (b) The best method of crop production including a careful study of the details of field experimentation as set forth in experiment station bulletins and reports and the publications of the United States Department of Agriculture; (c) The consumption of farm crops. Practicum Monday and Tuesday afternoons. Credit four hours. Second term.

This course must be preceded by course (13).

21. **Rural Engineering.** Lectures and recitations Friday, second hour, on: (a) Laying out the farm, including location of buildings and works; division of the farm into fields and yards, and the survey and measurement of the same; (b) Construction of buildings and works,

CHEESE CURING ROOM, TOWNSHEND HALL



BUTTERMAKING ROOM, TOWNSHEND HALL

including water supply, drains, sewage system, and roads; (c) The construction and use of farm machinery, including the application of mechanical principles in its structure and operation. Special attention will be given to comparisons and tests of various makes and kinds of farm machinery. Practicum Monday and Tuesday afternoons. Credit four hours. Third term.

This course must be preceded by course (11).

DAIRYING.

PROFESSOR DECKER, MR. HERRICK, MR. CROWNER.

6. **Butter Making and Cheese Making.** Practice Monday, Tuesday, Wednesday and Thursday afternoons each week in testing milk as to purity, contents of butter fat; in the use and care of centrifugal separators of different makes and other creamery and dairy devices; and in the making of butter and cheese by the most improved methods. In a word, all the essential operations of the creamery, factory, and home dairy, are repeatedly performed under the guidance and direction of the instructors until efficiency is attained. Neither is the student allowed to do this work by the rule of the thumb. He is required to follow the milk from the time it enters the laboratory until the finished product leaves it, and to determine the points in the process where losses occur and the reasons therefor. Credit six hours. Second term.

7. **Butter Making and Cheese Making.** Lectures and recitations on methods of creaming; factors which control the thoroughness of separation, either by gravity or centrifugal force; explanations of the continuous separation of cream: of ripening cream and testing for acidity; on the philosophy and methods of churning; the effect of temperature, acidity and richness of cream on time and completeness of churning; on the salting, working, packing, and marketing of butter; on the fermentation of milk as affecting cheese making; on the curd test for detecting gassy or bad flavored milk; on the rennet test; on the cutting, heating, milling, salting and pressing of the curd; on the curing and shipping of cheese; on the judging of butter and cheese and the pasteurization of milk. There are also lectures upon the construction, equipment and operation of creameries, cheese factories, dairies and milk depots. Each student is required to draw a plan of a dairy, a creamery or a cheese factory and prepare the estimate for the equipment of the same. Monday and Tuesday, first hour. Credit two hours. Second term.

15. **Butter Making.** Lecture Wednesday, fourth hour. Laboratory Friday and Saturday afternoons. Credit four hours. Second term.

22. **Elements of Dairying.** Lecture Wednesday, fourth hour, laboratory work Friday and Saturday afternoons. Credit four hours. First term or third term.

25. **Cheese Making.** Lecture Wednesday, fourth hour. Laboratory work Friday and Saturday afternoons. Credit four hours. Third term.

18. **Milk Inspection.** Lecture or laboratory one a week. Credit one hour. First term. Required in the course in Veterinary Medicine.

AGRICULTURAL CHEMISTRY.

(Townshend Hall, Rooms 29, 30, 34 and 35.)

PROFESSOR WEBER, MR. VINSON, MR. HIRSCH.

1. **Principles of Chemistry and Chemical Nomenclature.** Lectures and recitations Monday and Wednesday, second hour, on chemistry of non-metals, and laboratory practice either Monday or Tuesday afternoon and either Wednesday afternoon, Thursday, 8-10 A. M., or Friday, 8-10 A. M. First three or four weeks of the term lectures and recitations will be substituted for laboratory practice. Credit four and one-half hours. First term.

8. **Organic Chemistry.** Lectures and recitations Monday and Wednesday, second hour, and laboratory practice either Monday or Tuesday afternoon and either Wednesday afternoon, Thursday 8-10 A. M., or Friday 8-10 A. M. In connection with the lectures, Roscoe's Lessons in Elementary Chemistry or any other good text book on elementary chemistry is used. The laboratory work consists of a complete, systematic course in qualitative analysis. As a guide, Weber's Select Course in Qualitative Analysis is employed. Credit four and one-half hours. Second term.

9. **Application of Chemistry to Agriculture.** Lectures and recitations Monday and Wednesday, second hour, and laboratory practice either Monday and Tuesday afternoons or Wednesday and Thursday afternoons, and either Thursday 8-10 A. M., or Friday 8-10 A. M. In the third term, the lectures embrace the following topics: Ingredients of plants, organic and inorganic, essential and non-essential; sources of plant food, air and soil; nature of soil, mechanical portion, nutritive portion, assimilable and reserve plant food. At this point, the class is divided into two sections, the students of Agriculture continuing with soil exhaustion and amelioration; barnyard manure, its sources, composition and preservation; commercial fertilizers, their rational use and methods of determining the needs of soils; feeding stuffs and feeding rations. The students of Domestic Science are given for the remainder of the term a course of lectures on food adulteration illustrated with specimens obtained from the markets. The laboratory work of the third term begins with the quantitative analysis of simple salts as sodium sulphate and potassium chloride and continues with the analysis of limestones, soils, manures, feeding stuffs, and the short method of sanitary water analysis. Credit six hours. The students of Domestic science omit one laboratory period and omit the analysis of soils and manures. Credit four and one-half hours. Third term.

4. **Lectures and Laboratory.** Tuesday, second hour, or Friday, first hour, devoted to lectures on the industries related to agriculture, as the manufacture of sugar from cane, sorghum and beets; the manufacture of starch, glucose and dextrine; the nature and manufacture of vinegar, as fruit, malt and distilled vinegar; the manufacture of alcohol, malt liquors and wines. Laboratory practice Monday and Tuesday afternoons or Thursday and Friday afternoons, and Thursday, 8-10 A. M., consists of the official methods of analyzing fertilizer, feeding stuffs, milk, butter and cheese; the analysis of sugar, syrup and sugar producing plants, as beets; determination of cane sugar and milk sugar by means of the polariscope. The analysis of

flour, fruits, vegetables, condiments, etc. The analysis of vinegar, as cider, malt and distilled vinegar; the analysis of spirituous and fermented liquors. Credit five hours. First, second and third terms. Students of other departments may also elect three hours through the year in this course.

6. **Laboratory.** Lectures and recitations Thursday, third hour, and laboratory practice Wednesday and Thursday afternoons. The work of this course consists of the complete sanitary analysis of water, for which a special room detached from the main laboratory has been fitted up; the complete analysis of soils; the various official methods of determining nitrogen, potash and phosphoric acid; the analysis of oils and fats, complete analysis of grain; the analysis of tea and coffee; the examination of foods, syrups, spices, condiments, flavoring extracts for adulteration; also any work of previous courses, which for lack of time, may not have been completed. Credit four hours. First, second and third terms. May be elected as a three or five hour credit.

7. **Chemistry of Milk and Milk Testing.** Lectures Wednesday and Thursday, fourth hour, and laboratory practice Friday and Saturday 8-10 A. M. For dairy students. The lectures include a short course in elements of chemistry. The laboratory work covers the following manipulations: The Babcock method of determining fat in pure milk, skimmed milk, cream, sour milk and cheese; the testing of instruments (milk bottles, lactometers, etc.). The calculation of the composition of milk by Fleischman and Babcock formulae; the determination of preservatives in milk; the detection of artificial colors in butter and oleomargarine, etc. Credit four hours. Second term.

AGRICULTURAL CHEMICAL LABORATORY, TOWNSHEND HALL

PHYSIOLOGICAL LECTURE ROOM, BIOLOGICAL HALL

BACTERIOLOGICAL LABORATORY, BIOLOGICAL HALL

ANATOMY AND PHYSIOLOGY.

(Biological Hall, Rooms 12 and 20.)

PROFESSOR BLEILE, ASSISTANT PROFESSOR MORREY, MR. DRESBACH.

1. **Human Anatomy and Physiology.** Lectures, recitations and laboratory work Monday, Thursday and Friday, third hour. First, second and third terms. This course must be preceded by or accompanied with, a course in chemistry. Credit three hours.

2, **General Physiology.** Lectures, recitations and demonstrations Tuesday, Wednesday and Thursday, first hour. Credit three hours. Third term.

3. **Chemical Physiology.** Thursday and Friday afternoons. Credit three hours. Third term.

6. **Bacteriology.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to dairy and other agricultural industries. Monday, second hour, and Tuesday, second and third hours. Credit two hours. Second term.

10. **Bacteriology.** Lectures and laboratory work Tuesday and Thursday, second hour, on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to cooking and other domestic affairs. Credit two hours. Third term.

ARCHITECTURE AND DRAWING.

(Hayes Hall, rooms 22, 23 and 24.)

PROFESSOR BRADFORD, ASSOCIATE PROFESSOR FRENCH, MR. LEWIS, MR. MARTIN, MR. VOSSKUEHLER.

1. **Freehand Drawing.** Practice and occasional lectures Tuesday and Thursday afternoons. Practice in pencil, charcoal, pen drawing and color from models and plaster casts. Credit three hours. First, second and third terms.

10. **Mechanical Drawing.** Lectures and practice Thursday and Friday afternoons. Elementary mechanical drawings, lettering and working drawings. Credit three hours. Second term.

15. **Technical Drawing.** Lectures and practice Monday afternoon. House planning. This course preceeded by Course 10. Credit one and one-half hours. Second and third terms.

16. **Technical Drawing.** Lectures and practice Monday and Tuesday afternoons. Designing, preparing working drawings and specifications for structures related to agriculture. This course preceeded by Course 10. Credit three hours. Third term.

20. **Mechanical Drawing.** Lectures and practice Monday afternoon. Elementary mechanical drawing and lettering. Credit one and one-half hours. First term.

ART ROOM, HAYES HALL

MECHANICAL DRAWING ROOM, HAYES HALL

ART.

An elective in Art offered by the Department of Drawing. Must be preceded by Course 1 in Drawing or its equivalent elsewhere.

17. **Practice and Occasional Lectures.** Lectures on color standards, color theory, color harmony, color appearances, tone and graduation, atmosphere and values. Practice in color work either water or oil color. First term.

18. **Practice and Occasional Lectures.** Lectures on objects of art, ideas and subjects, style and individuality. Practice in water or oil painting from still life. Second term.

19. **Practice and Occasional Lectures.** Lectures will be a continuation of second term's work. Practice in water or oil painting from still life and nature or clay modeling. Third term.

The above is to be offered as an elective for two or three hours as follows:— Lecture for one hour and practice for two or four hours as the tudent has time.

ASTRONOMY.

(Emerson McMillin Observatory.)

PROFESSOR H. C. LORD, Director of the Observatory,
MR. J. WARREN SMITH, Special Lecturer on Meteorology.

3. **Meteorology.** Lectures Thursday and Friday, 4-5 P. M., on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Credit two hours. Third term.

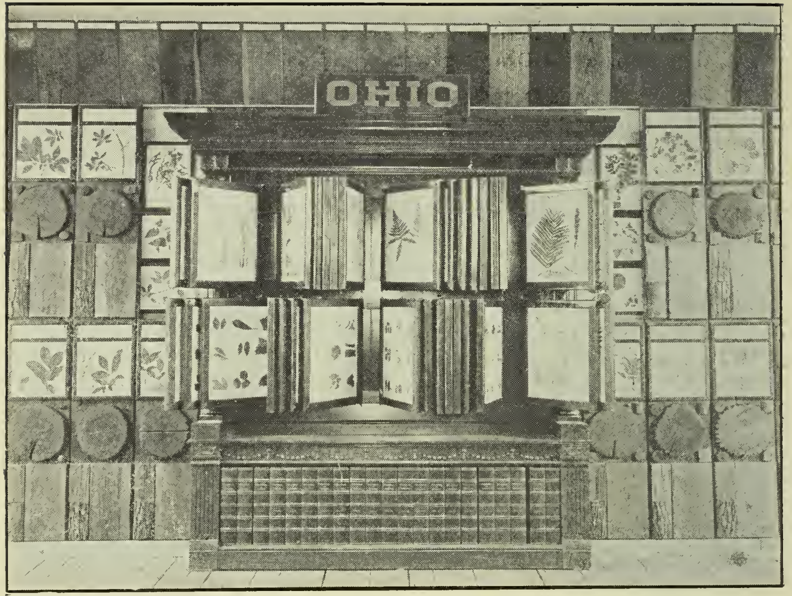
BOTANY.

(Botanical Hall.)

PROFESSOR KELLERMAN, ASSISTANT PROFESSOR SCHAFFNER, FLORIST JENNINGS, MR. TYLER, MR. BRIDWELL.

1. **Elementary Botany.** Lectures and recitations Monday, Tuesday, Thursday and Friday, third hour. Credit five hours. Spring term. Text-book, Kellerman's Elementary Botany and Spring Flora. This is a general course introductory to those that follow. It comprises mostly Organography and Vegetable Physiology and a study of the native flora, but some instruction is also given in Ecology and Classification. For the practical or laboratory work, Kellerman's Practical Exercises is used as a guide. The students are required to do some work in the field in both observation and collecting.

6. **Physiological Botany.** Lectures and recitations Monday, Wednesday and Friday, first hour, and laboratory and field work Monday or Wednesday afternoon. Credit four and one-half hours. Fall term.



A VIEW IN THE BOTANICAL MUSEUM

CENTRAL BED IN SEC 1, BOTANICAL GREENHOUSE

Text-book, Coulter's Plant Life. This is intended to be a complete course showing the evolution of plants from the lowest to the highest. Ecology and Physiology are the more prominent subjects but some instruction is given in Morphology and Classification. The laboratory work includes a general course in histology with practice in experimental physiology. The student receives instruction and practice in handling the microscope and has the opportunity of learning much of the important modern methods in technique.

7. **Economic Botany.** Lectures and recitations Monday, Wednesday and Friday, first hour, and laboratory Monday or Wednesday afternoon. Credit four and one-half hours. Winter term. This course is, in part, a continuation of Course 6 but the major part of the term is devoted to a botanical study of economic plants and the vegetable products of commerce. The laboratory work includes the microscopic study of fibres, starches, resins, gums and many other important vegetable products.

8. **Vegetable Pathology.** Lectures and recitations Monday, Wednesday and Friday, first hour. Laboratory and field work Monday and Tuesday or Wednesday and Thursday afternoons. Credit six hours. Spring term. Text-book, Massee's Plant Diseases. The diseases of plants due to inorganic causes are briefly studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes up the latter part of the term some economic subject or group of parasites for special study.

12. **Physiological and Household Botany.** Three terms. Lectures, recitations and seminary work Tuesday and Thursday, first hour; laboratory period Friday afternoon. Credit three and one-half hours. This course is planned exclusively for students in Domestic Science. Ecology, physiology, morphology and classification are briefly reviewed—Barnes' Outline of Plant Life being used for the first part of the work. The main part of the course is devoted to economic botany, particularly to those phases which concern household work and home life. This includes a study of useful species, as culinary, medicinal, starch, oil and fibre-producing plants. Special attention is given to yeast, fermentations, enzymes, bacteria, antiseptics, fungicides, food-destroying fungi, and mushrooms.

ELECTIVE COURSES.

8. **Dendrology.** Lectures and field work. Credit two hours. First term. Kellerman's Forest Trees of Ohio and various reference books are used. The native trees are studied and illustrative collections made.

10. **Dendrology.** Laboratory work and special investigations on the structure and diseases of timber. Credit two hours. Second term.

11. **Laboratory Work.** Special investigations in Economic Botany and Vegetable Pathology. First, second and third terms. Credit two to five hours.

DOMESTIC SCIENCE LABORATORY, HAYES HALL

DINING ROOM, DEPARTMEMT OF DOMESTIC ECONOMY, HAYES HALL

DOMESTIC ECONOMY.

(Hayes Hall, Rooms 1, 3 and 10).

PROFESSOR STONER, ASSOCIATE PROFESSOR SOUTHER.

DOMESTIC SCIENCE.

1. **Food Economics.** Lectures and recitations Monday and Wednesday, second hour. Laboratory Tuesday and Wednesday afternoons. Lectures embracing a study of the evolution of society as affected by food conditions; second, a study of the food principles and their classification; third, the functions of the various foods; fourth, chemistry as applied in the study of the science of nutrition; fifth, the history and manufacture of food material, etc.; sixth, the care and use of ordinary utensils and furnishings. Three lectures and two laboratory periods are given in the Dairy Department under the direction of Professor Decker. Parallel readings are required. Laboratory work includes experimental work with foods and the preparation and serving of typical foods of certain classes. Credit five hours. First term.

2. **Food Economics.** Lectures and recitations Monday and Wednesday, second hour. Laboratory Tuesday and Wednesday afternoons. This includes a continuation of the subject outlined in Course 1, and marketing, table setting and serving. By lecture and research work, the relative nutritive and money values of food are considered, Each student prepares a weekly dietary for the family. The amount expended is limited by the instructor. United States Agricultural Bulletin standards used. Parallel readings are required. Laboratory work is a continuation of Course 1. Credit five hours. Second term.

3. **Therapeutic Diet and Emergency Work.** Lectures and recitations Monday and Wednesday, second hour. Laboratory Tuesday and Wednesday afternoons. The lectures, demonstrations and practical work are designed to set forth the principles of the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home, as well as the principles underlying good nursing. Food suitable for infants, invalids and convalescents is prepared in the laboratory. Parallel readings are required. Credit five hours. Third term.

4. (*a*) **Preservation of Foods.** One half term.
(*b*) **Hygiene of Clothing.** One half term.

Lectures and recitations Tuesday and Thursday, fourth hour. Laboratory Thursday and Friday afternoons.

(*a*) Includes a brief study of the causes of decomposition; a history of the methods employed in the preservation of foods; the economic value of canned foods and the principles involved in canning, preserving, etc.

(*b*) Includes a study of the structure of fibres and their proper treatment; the properties and cleansing effects of water and soap; the effect of blueings, etc. Experimental work with chemical reagents for the treatment of all kinds of stains, etc., and the use of disinfectants and their properties.

DOMESTIC ART LABORATORY, HAYES HALL

A CORNER IN DOMESTIC SCIENCE LABORATORY, HAYES HALL

Lectures on hygienic clothing and the proper care of all kinds of house linens, etc. Demonstration work in practical laundry methods. Credit five hours. First term.

10. **Household Science and Sanitation.** Lectures and recitations Tuesday and Thursday, second hour. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. A consideration of water supplies and sanitary drainage. Furnishings of the house from the standpoint of utility, sanitation and economy. Parallel readings are required. Credit two and one-half hours. Third term.

11. **Advanced Food Economics.** Lectures and recitations Tuesday, second hour. Laboratory Thursday afternoon. This subject includes advanced work in Food Economics and Dietaries. Parallel readings are required. Credit two and one-half hours. Second term.

12. **Theory and Practice of Domestic Science.** Elective. Lectures and recitations Monday and Friday, third hour. Laboratory Thursday and Friday afternoons. This course is designed for young women who desire to take special professional training in Home Economics and who wish to study the educational, economic, scientific and practical principles involved in the application of those subjects in professional work. Parallel readings are required. Students electing this work must have completed courses 1, 2, 3, 4, 10, and 11. Credit five hours. Third term.

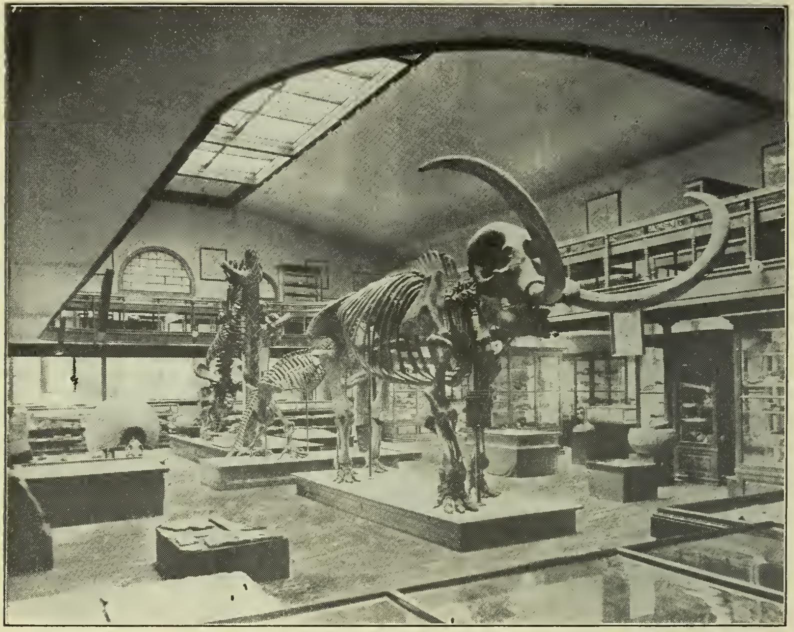
DOMESTIC ART.

5, **Lectures on the Industrial and Artistic Evolution of Society.** History of the early races considered with special reference to the development in culture gained through hand-work. Practice work, preparation of a series of models comprising the different stitches used in plain hand sewing; darning, patching and ornamental stitches. Lectures and recitations Tuesday and Thursday, fourth hour. Practice periods Thursday and Friday afternoons. Credit five hours. Second term.

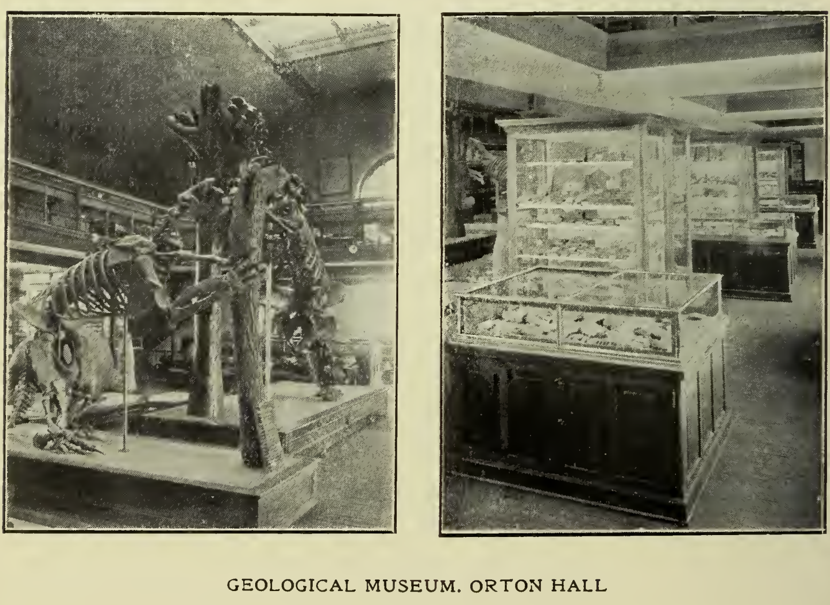
6. **Lectures on Textiles.** Study of vegetable fibres; their growth and the processes of their manufacture. Comparative economic value of fabrics. Practice work: machine and hand work on underwear; drafting from simple measurements; use of patterns; making of simple straw hats and bows. Lectures and recitations Tuesday and Thursday, fourth hour. Practice periods Thursday and Friday afternoons. Credit five hours. Third term.

7. **Lectures on Textiles.** Study of animal fibres; treatment of wool and silk fabrics; hygienic and artistic dress; consideration of line, form and color. Practice work: Costume designing in pencil and water color; drafting patterns by use of Tailoring System. Cutting and Fitting, Making of hat frames, covering and trimming the same. Lectures and recitations Monday, second hour. Practice periods Tuesday and Wednesday afternoons; Credit four hours. First term.

8. **Lectures on History of Art and Architecture and Historic Costumes.** Practice work: Making of a lined waist; cutting and fitting of dress skirts.



GEOLOGICAL MUSEUM, ORTON HALL



GEOLOGICAL MUSEUM. ORTON HALL

Lectures and recitations Monday, second hour. Practice periods Tuesday and Wednesday afternoons. Credit four hours. Second term.

9. **Lectures on Historic Art and on the Decoration of the House.** Practice work: Making af a tailored skirt and jacket or of a party wrap or tea gown. Lectures and recitations Monday, second hour. Practice periods Tuesday and Wednesday afternoons. Credit four hours. Third term.

Note. Pupils are required to furnish all materials. Individual instruction is given throughout, the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality are encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. Pupils taking a special or elective course and desiring to enter the class in dressmaking and designing, as given in the fall term, must have credits for such hand work as is done in Courses 5 and 6, and must take the lecture work of those courses, in the University. It is also essential to have had some practice in art work, both with pencil and water color.

ECONOMICS AND SOCIOLOGY.

(University Hall, Rooms 17 and 18).

PROFESSOR CLARK, ASSISTANT PROFESSOR HAGERTY.

1. **Elements of Political Economy.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations Monday, Wednesday and Friday, first or second hour. Credit three hours, First, second and third terms. May be taken in connection with Courses 2, 3 and 4, making five hours through the year.

EDUCATION.

(University Hall, Rooms 51 and 54).

ASSOCIATE PROFESSOR MAJOR, DR. HAINES.

1. **Educational Psychology.** The aim of this course is to make a thorough study of laws and principles selected from psychological literature, which seem to bear upon educational theory and practice Emphasis is laid upon the function of psychology in determining the selection and arrangement of school work, as well as upon its bearing on class-room procedure. The work of the first and second terms is based on James' "Talks on Psychology" supplemented by references to periodical literature and standard texts on psychology. The work of the third term will consist of a study of normal mental types, a description of the so-called stages of mental development, and special topics in mental pathology. Monday, Wednesday and Friday, fourth hour. Credit three hours. First, second and third terms.

ENGLISH LITERATURE.

(University Hall, Room 31).

PROFESSOR BARROWS.

1. **An Introduction to English Literature.** This course includes: (1) An outline of the history of English Literature. For this part of the work Scudder's "Introduction to the Study of English Literature," is covered by three examinations; (2) Lectures on the elements of literary analysis and interpretation; (3) Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. This part of the work will occupy most of the time in the recitation room. The book first used is Palgrave's "Golden Treasury." The texts of poets and prose writers studied in this course, outside of Palgrave's "Treasury," can be obtained of the department at a moderate charge. Monday, Wednesday and Friday, first or second hour. Credit three hours. First, second and third terms.

GEOLOGY.

(Orton Hall).

PROFESSOR PROSSER, PROFESSOR BOWNOCKER.

2. **General Geology.** Structural, historical and dynamical geology. Lectures and recitations Monday, Tuesday and Wednesday, fourth hour; laboratory Thursday, first and second hours; and field work Saturday morning. In the laboratory, Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.

5. **Economic Geology.** The common minerals and rocks composing the earth's crust, their disintegration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels, coal, oil, and gas. Building stones, limes and cements. Iron and the most useful metals. Lectures Monday, Tuesday and Wednesday, first hour. Laboratory Thursday, first hour. Credit three and one-half hours. Second term.

1. **Physiography.** The topographic features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures and map work Monday, Tuesday, Wednesday, Thursday and Friday, fourth hour. Credit five hours. Third term.

GERMANIC LANGUAGES AND LITERATURES.

(University Hall, Rooms 30 and 32).

PROFESSOR EGGERS, ASSOCIATE PROFESSOR MESLOH, MR. EISENLOHR.

1. **Elementary.** Monday, Tuesday, Thursday and Friday, third or fourth hour. Credit four hours. First, second and third terms.

2. **Science Reading.** Two or four times a week through the year.

4. **Intermediate German and German Literature.** Monday, Tuesday, Thursday and Friday, third or fourth hour. Credit four hours. First, second and third terms. German 1 is required in the course in Agriculture in the third year. German 1 and 4 are required in the course in Horticulture and Domestic Science in the second and third years, respectively. German 2, 9 or 10 may be elected by students in Horticulture and Domestic Science who have finished previous courses, i. e., 1 or 1 and 4, respectively.

9. **Classical Drama and Prose.** Three times a week. Three terms.

10. **Modern Prose and Drama.** Three times a week. Three terms.

HISTORY.

AMERICAN HISTORY.

(University Hall, Rooms 27 and 48).

PROFESSOR KNIGHT, MR. TUTTLE.

1. **Political History of the United States.** Lectures, text-books and prescribed readings. Thwaites' The Colonies; Hart's Formation of the Union: Wilson's Division and Reunion. Three times a week throughout the year. Two or three sections. The aim of this course is to give the student such knowledge cf the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions. Monday, Wednesday and Friday, first or second hour. Credit three hours. First, second and third terms.

HORTICULTURE.

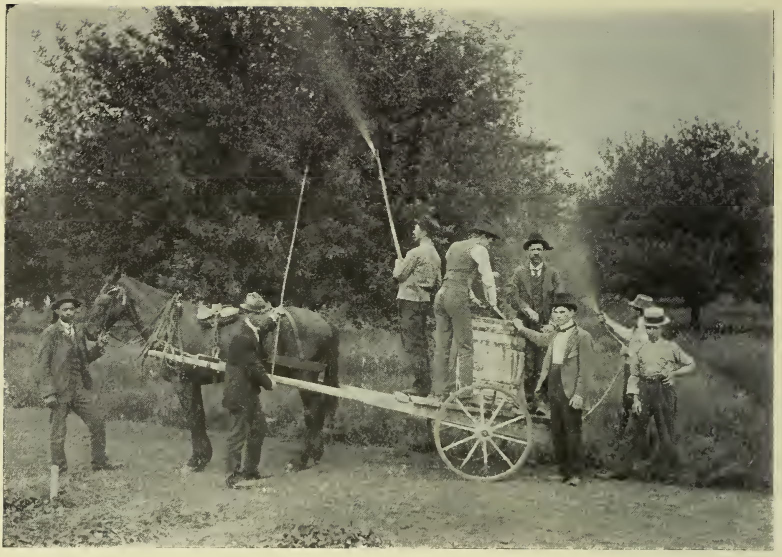
(Horticultural Hall).

PROFESSOR LAZENBY, MR. DAVIS.

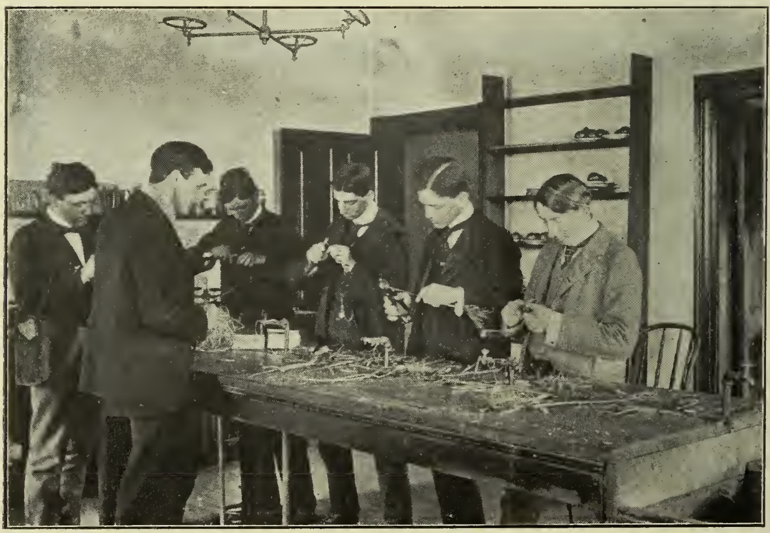
1. **Elements of Horticulture.** A study of the principles of plant growth and culture, including preparatory tillage, drainage, irrigation, weeds, insects, etc., in their relation to horticultural crops. Lectures and recitations Monday, Tuesday and Wednesday, second hour. Laboratory and practicum Thursday or Friday afternoon. Credit four and one-half hours. First term.

2. **Greenhouse Construction and Management.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The crops of the vegetable forcing house and their management. Lectures and recitations Monday, Tuesday and Wednesday, second hour. Laboratory and practicum Thursday or Friday afternoon. Credit four and one-half hours. Second term.

3. **Plant Propagation.** The theory and practice of multiplying plants by seeds, cullings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Transplanting, pollinating, and the use of insecticides and fungicides. Lectures and recitations Monday, Tuesday and Wednesday, second hour. Laboratory and practicum Thursday or Friday afternoon. Credit four and one-half hours. Third term.



PRACTICAL LESSON IN SPRAYING, DEPARTMENT OF HORTICULTURE



STUDENTS ROOT GRAFTING, HORTICULTURAL HALL

5. **Varieties of Cultivated Fruit.** A study of history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food values. The judging and scoring of apples, pears, peaches, grapes, citrous and nut fruits. Lectures and recitations Monday, Wednesday and Friday, first hour. Laboratory and practicum Wednesday afternoon. Credit four and one-half hours. First term.

6. **Principles of Fruit Culture.** A study of the location, tillage and fertilizing of orchards and gardens; the selection of varieties, laying out, planting and general management of fruit plantations, including diseases, insects and fungi; the use of insecticides and fungicides; harvesting, marketing and storing fruit. Lectures and recitations Monday, Tuesday and Thursday, third hour. Laboratory and practicum Wednesday afternoon. Credit four and one-half hours. Second term.

7. **Small Fruit Culture.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross pollinating, judging and scoring of small fruits; the relation of bees and birds to horticulture; insect enemies, fungus diseases and the philosophy of spraying. Lectures and recitations Monday, Tuesday and Thursday, third hour. Laboratory and practicum Wednesday afternoon. Credit four and one-half hours. Third term.

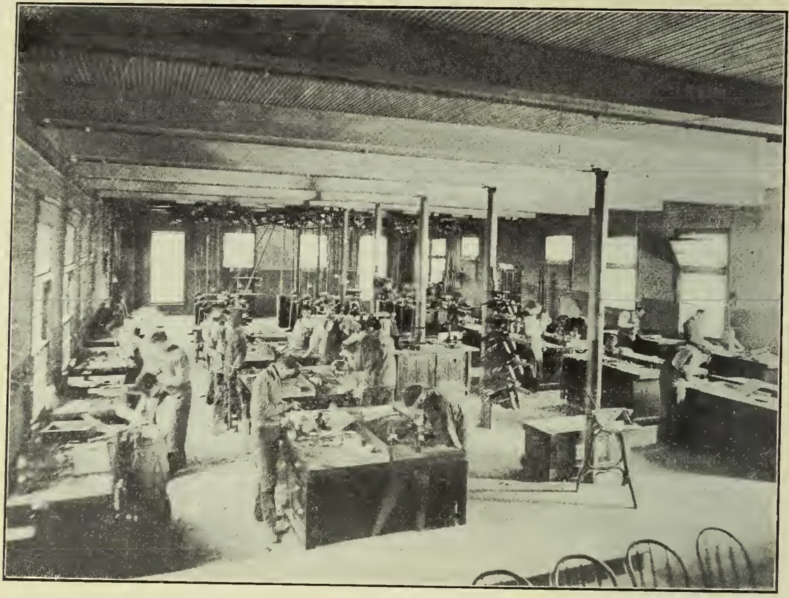
8. **Elements of Floriculture.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures Tuesday, first hour, or Friday, second hour. Laboratory and practicum Monday or Tuesday afternoon. Credit two and one-half hours. First term.

9. **Commercial Floriculture.** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures and recitations Tuesday, first hour, or Friday, second hour. Laboratory and practicum Monday or Tuesday afternoon. Credit two and one-half hours. Second term.

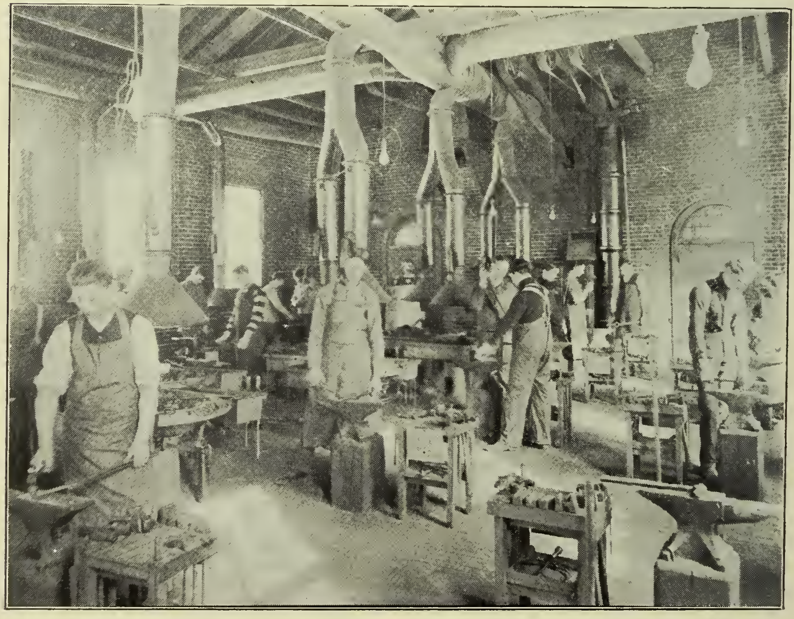
10. **Amateur or Home Floriculture.** Including the study of window gardening and general management of house plants; the out door flower garden and treatment of flower beds and borders. Lectures and recitations Tuesday, first hour, or Friday, second hour. Laboratory and practicum Monday or Tuesday afternoon. Credit two and one-half hours. Third term.

11. **Arboriculture.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges; methods of propagation and culture. Lectures Thursday, first hour. Laboratory and field work Friday afternoon. Credit two and one-half hours. First term.

12. **Sylviculture and Forestry.** A study of the influence of forests upon soils, crops and climate; forestry in Europe; value of trees for timber;



THE CARPENTER SHOP, HAYES HALL



THE FORGE ROOM, HAYES HALL

establishment and management of small plantations of forest trees; how to improve and extend existing woodland. Lectures Thursday, first hour. Laboratory and practicum Friday afternoon. Credit two and one-half hours. Second term.

13. **Landscape Gardening.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures Thursday, first hour. Practicum Friday afternoon. Credit two and one-half hours. Third term.

INDUSTRIAL ARTS AND SHOPWORK.

(Hayes Hall, Rooms 5, 6, 9, 12, 17, and 18).

PROFESSOR SANBORN, MR. RENCK, MR. CROWE.

SHOPWORK.

1. **Carpentry and Pattern Making.** Exercises and practice Wednesday and Thursday afternoon or Friday afternoon and Saturday morning in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc. Credit three hours. Second term.

2. **Forging.** Exercises and practice Wednesday and Thursday afternoon or Friday afternoon and Saturday morning in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs. Credit three hours. First or second term.

MATHEMATICS.

(University Hall, Room 45).

PROFESSOR BOHANNAN, ASSOCIATE PROFESSOR MCCOARD, MR. TRAVIS.

1. **Elementary Algebra.** Venable. Monday, Tuesday, Wednesday, Thursday and Friday, first hour. Credit five hours. First term.

3*a*. **Plane Geometry.** Venable. Monday, Tuesday, Wednesday, Thursday and Friday, first hour. Credit five hours. Second term.

MECHANICAL ENGINEERING

(Hayes Hall, Room 12.)

PROFESSOR MAGRUDER.

26. **Steam Machinery.** Lecture Friday, 1-2 P. M., on the care of steam engines and boilers, pumps and injectors, and of ammonia refrigerating machinery. Course in Dairying. Credit one hour. Second term.

MILITARY SCIENCE AND TACTICS.

(The Gymnasium and Armory).

CAPTAIN CONVERSE.

1. **Military Drill.** Monday, Tuesday, Wednesday and Thursday 4-5 P. M., from the opening of College till the Thanksgiving vacation and during the third term. Required of all able-bodied men under twenty-five years of age during the first and second years of their course.

2. **Tactics.** Lectures and recitations Monday 4-5 P. M. Second term.

PHYSICAL EDUCATION.

(The Gymnasium and Armory).

PROFESSOR LINHART, ASSOCIATE PROFESSOR BERRYMAN, MR. HUDDLESON.

1. **Gymnasium.** Monday, Tuesday, Wednesday and Thursday 4-5 P. M., from Thanksgiving vacation till the beginning of the third term. Required of all young men during the first and second years of their course.

2. **Gymnasium.** Monday, Tuesday, Thursday and Friday, fourth hour. Required of all yonng women during the first year of their course.

3. **Gymnasium.** Monday, Tuesday, Thursday and Friday, third hour. Required of all young women during the second year of their course.

PHYSICS.

(University Hall, Room 14).

PROFESSOR THOMAS, ASSISTANT PROFESSOR KESTER.

1. **Elementary Physics.** Recitations and experimental lectures Monday, Tuesday, Wednesday, Thursday and Friday, first hour, or Monday, Tuesday and Friday, third hour, and Wednesday and Thursday, fourth hour. Text: Carhart & Chutes', "Elements of Physics." This course is required of students in the first year of the Short Course in Agriculture. Other courses in Physics may be elected by fourth year students in Agriculture. For description of such courses and of the equipment of the department, see general catalogue. Credit five hours. First and second terms.

RHETORIC AND ENGLISH LANGUAGE.

(University Hall, Rooms 38, 40, 42 and 55).

PROFESSOR DENNEY, ASSISTANT PROFESSOR GRAVES, ASSISTANT PROFESSOR MCKNIGHT, ASSISTANT PROFESSOR ALLEN.

1. **Paragraph Writing and Analysis of Prose.** Tuesday and Thursday. third hour. Credit two hours. First, second and third terms.

21. **Essentials of Oral Discourse.** Tuesday, second hour. Credit one-half hour. First, second and third terms.

2. **Expository Writing.** First term. Twice a week. Must be preceded by 1. Elective.

3. **Brief Making and Written Argumentation.** Second and third terms. Twice a week. Must be preceded by 1. Elective.

23. **Debates.** First and second terms. Two hours a week. Must be preceded by 3. Elective.

24. **Extempore speaking.** Third term. Twice a week. Must be preceded by 23. Elective.

25. **Oratory.** Three terms. Twice a week. Must be preceded by 3. Elective.

10. **Advanced Composition.** (Individual work). This course is designed for upper classmen who desire to continue practice in some one of the forms of composition studied in courses 1, 2, 3. or who seek criticism of work intended for publication in newspaper or magazine. Each student will meet the instructor at stated periods for criticism and assignments. Course 10 may be undertaken at the beginning of any term. Credit one hour, limited to three terms. Elective.

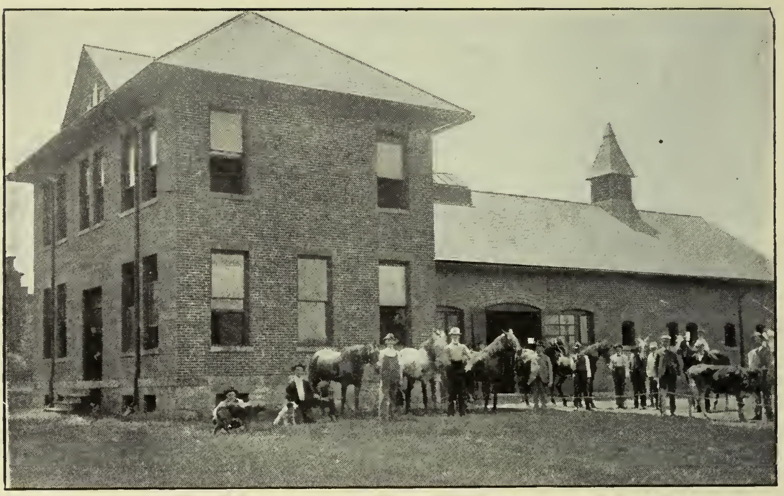
ROMANCE LANGUAGES AND LITERATURES

(University Hall, Rooms 34 and 35.)

PROFESSOR BOWEN, ASSOCIATE PROFESSOR BRUCE, ASSISTANT PROFESSOR BATCHELDER.

1. **Elementary French.** Monday, Tuesday, Thursday and Friday, third or fourth hour. Grammar and reader, modern prose and plays. Grammar: Joynes' Minimum or Edgren's (Part 1) or Grandgent's Essentials, with written exercises. Reader: Super's (from Part 2) or Whitney's (Parts 1 and 2) or Laboulaye's Contes bleus. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. After the completion of the reader, historical and narrative prose works are taken up, followed by the study of one or more prose comedies. All the works read are taken from the nineteenth century literature. As the texts used vary from year to year, no special volumes or editions are here cited. Toward the close of the year, sight reading is emphasized.
Credit four hours. First, second and third terms.

2. **Modern French Literature.** Monday, Tuesday, Thursday and Friday, third or fourth hour. The study of the literature as such is now taken up. The work of the year covers a survey of four fields: (1) Contes and Historiettes; (2) The Novel (Balzac, Eugenie Grandet); (3) Lyric Poetry (Bowen's Modern French Lyrics); (4) Romantic Drama (Hugo). Prose Composition (Bouvet). Private reading is also required, covering



DAILY CLINICS AT VETERINARY HOSPITAL

A PRACTICUM IN PHYSICAL DIAGNOSIS, VETERINARY HOSPITAL selections from the short stories of Daudet and an episode from Hugo's Les Miserables. The work is supplemented by lectures; these include a general survey of French literature from its beginning, together with special lectures on Balzac, Victor Hugo, and the romantic drama. During the first half year one hour a week is also given to practical work (prose composition, conversation, study of syntax and idiom). This course is open to those who have completed Course 1 or who have received credit for French as an entrance subject.

Credit four hours. First, second and third terms.

VETERINARY MEDICINE

PROFESSOR WHITE, PROFESSOR FISCHER, PROFESSOR SISSON.

28. **Veterinary Anatomy.** Brief outline of the anatomy of the horse and ox. Lectures and recitations Monday, Tuesday and Wednesday, first hour. Clinical practice and demonstrations Thursday afternoons. Credit four and one-half hours. First term.

29. **Veterinary Practice.** The more common diseases of a non-infective character, to which farm animals are subject. Minor surgery, castration, and the principles of horseshoeing are included in this course. Lectures and recitations Monday, Tuesday and Thursday, third hour. Practicum Thursday afternoon. Credit four and one-half hours. Second term.

30. **Veterinary Practice.** The most common infectious and contagious diseases affecting farm and dairy animals, and the most scientific methods of preventing, dealing with and treating the same. Lectures and recitations Monday, Tuesday and Thursday, third hour. Practicum Thursday afternoon. Credit three hours. Third term.

17. **Diseases of the Cow.** Special course for students in Dairying. Lectures and demonstrations Wednesday, Thursday and Friday, second hour, consisting in the following: (a) Anatomy of the cow with special references to the digestive, reproductive and milk producing organs; (b) The more common non-infectious diseases of these organs and their treatment; (c) Most important infectious and contagious diseases and methods of preventing and dealing with them; (d) Practical methods of administering medicines, securing during operations, casting, etc. Credit three hours. Second term.

*ELECTIVES

Veterinary Medicine (11, 12, 13) 5. (Anatomy) First, second and third terms. Veterinary Medicine (14, 15, 16) (General Pathology and Theory and Practice). Five times a week throughout the year. This Course

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*Although the above electives are especially recommended, agricultural students who have had Anatomy and Physiology may elect any subject taught in the College of Veterinary Medicine.

ZOOLOGICAL MUSEUM, BIOLOGICAL HALL

ZOOLOGICAL LABORATORY, BIOLOGICAL HALL

should be preceded by Veterinary Medicine (11, 12, 13) 5 and by Physiology (1) 3. Veterinary Medicine (19) 3. (Horse, Cattle and Dog Clinic in the Veterinary Hospital). Daily, including Saturdays, 10–12 M. First, second and third terms. Veterinary Medicine (21, 22) 3. (Infectious and contagious diseases). First and second terms. Veterinary Medicine (23) 3. (Obstetrics). Second term. Veterinary Medicine (26) 3. (Principles of Horseshoeing). Third term.

ZOOLOGY AND ENTOMOLOGY

(Biological Hall, Rooms 3, 4, 7, 8 and 9).

PROFESSOR OSBORN, ASSISTANT PROFESSOR HINE, ASSISTANT PROFESSOR LANDACRE.

1. **Invertebrate and Vertebrate.** Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domestic species.

Lectures and recitations Monday and Friday, third hour. Laboratory Tuesday or Wednesday afternoon. Credit three and one-half hours.

3. **Economic Entomology.** Insects of forest, orchard and garden. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc.

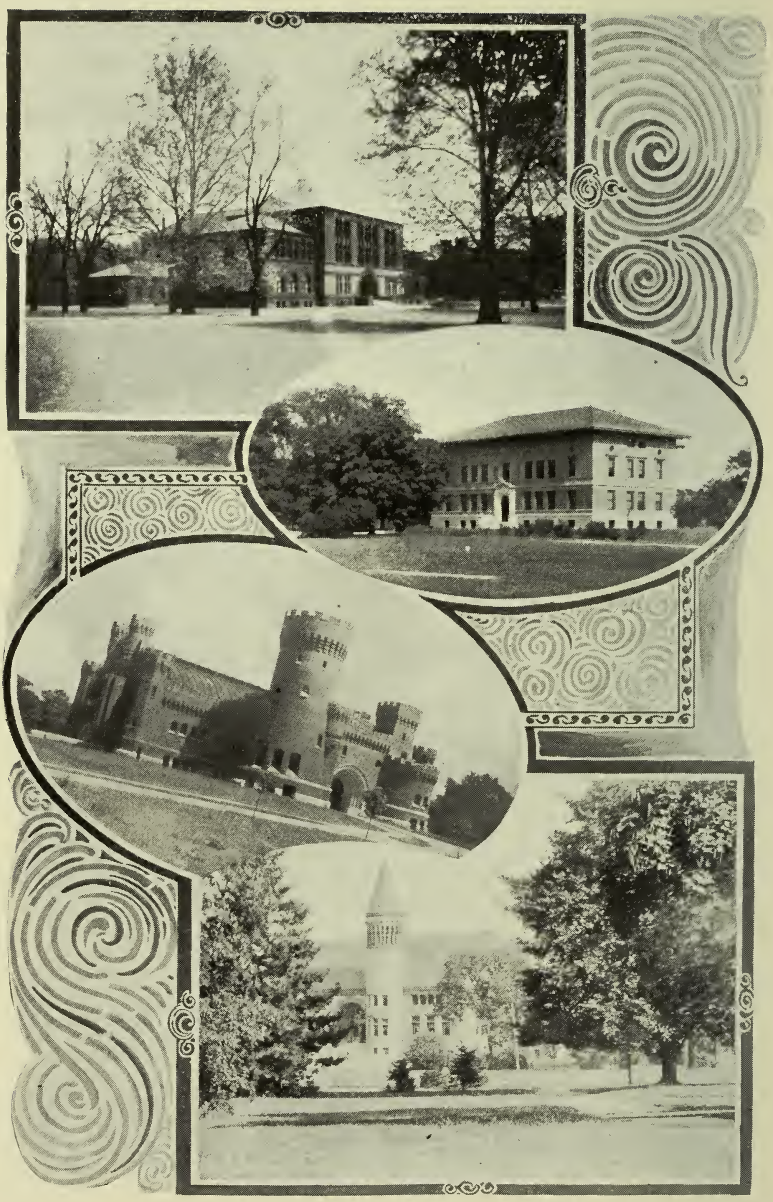
Lectures and recitations Thursday, second hour. Laboratory Thursday afternoon. Credit two and one-half hours. Third term.

4. **Economic Entomology.** Twice a week through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy.

Recitations and lectures Friday, second hour. Laboratory Friday afternoon. Credit two and one-half hours.

5. **Economic Entomology.** Insects of the household. Discussions of the different insects of importance in the household as injurious to food materials, clothing, carpets, draperies, etc. Fourth year; course in Domestic Science. Lectures Monday, Wednesday and Friday, fourth hour. Credit three hours. First term.

7. **Systematic and Practical Entomology.** Two lectures and one laboratory period a week. Third term. An elementary practical course for students in the Short Course in Agriculture.



HAYES HALL
ARMORY AND GYMNASIUM

BIOLOGICAL HALL
ORTON HALL

8. **Parasites of Domestic Animals.** A lecture course devoted to the principal parasites affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. Elective. First term.

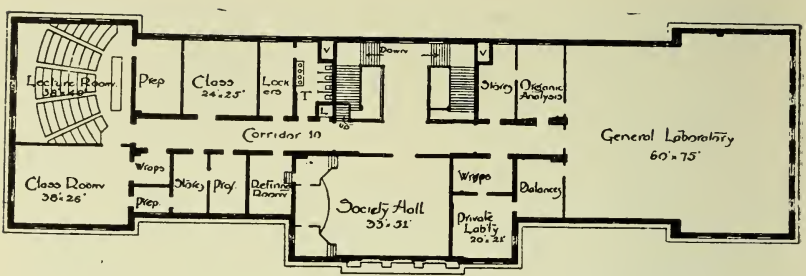
9. **Special Entomology.** Studies of life histories, collection and classification in selected groups. Field work and lectures. Four periods each week. Elective. Fall term.

10. **Special Entomology.** Studies of winter condition of insects. Insecticides, insecticide machinery, methods of preparing insect illustrations, greenhouse pests, etc. Four periods each week. Elective. Spring term.

11. **Special Entomology.** Investigations of selected groups or species. Lectures on insect legislation, distribution, natural enemies, special methods of control, etc. Four periods each week. Elective. Spring term.

Courses 9, 10 and 11 are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.

A WINTER SCENE ON THE CAMPUS



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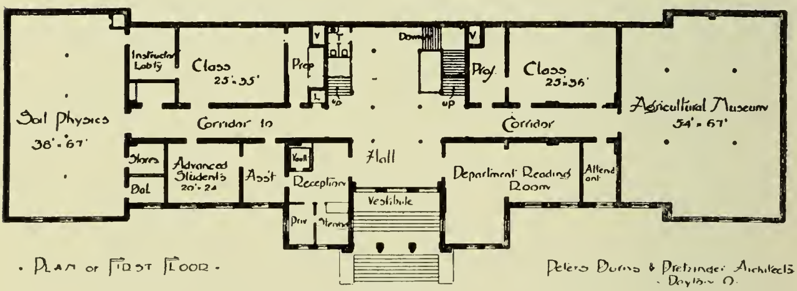
– Dayton O. –

· PLAN OF SECOND FLOOR ·

· TOWNSHEND HALL · OHIO STATE UNIVERSITY ·



· PLAN OF FIRST FLOOR ·

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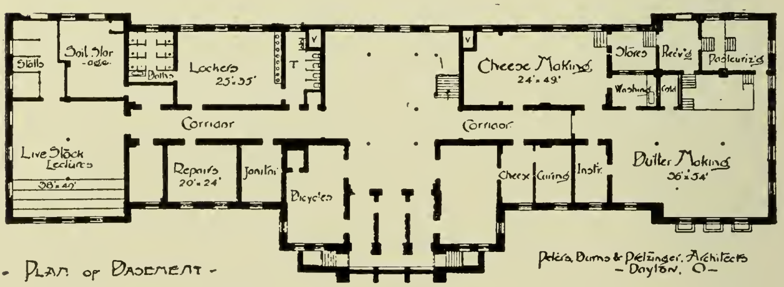
· Dayton O.

· TOWNSHEND HALL · OHIO STATE UNIVERSITY ·



· PLAN OF BASEMENT ·

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– Dayton, O. –

TOWNSHEND HALL · OHIO STATE UNIVERSITY ·

EQUIPMENT AND FACILITIES FOR INSTRUCTION

Agriculture. This department is located in Townshend Hall, headquarters for the College of Agriculture and Domestic Science, which was completed in 1898 at a cost of $100,000. This agricultural building is named after that illustrious pioneer in "education for agriculture", the late Dr. N. S. Townshend, who for twenty-five years was professor of agriculture in the Ohio State University, and who, in 1854, associated himself with James Dascomb, John S. Newberry, and James H. Fairchild, in establishing the "Ohio Agricultural College" at Oberlin. Townshend Hall is a memorial to his public services and his work in advancing the cause of agricultural education.

Townshend Hall is 260 feet long, and varies in width from 64 to 78 feet. It contains two stories, and a basement which is fourteen feet high, making the building practically three stories high. The walls above the basement line are of gray pressed brick. The basement walls and the front entrance are of Bedford, Indiana, Oolotic limestone and the trimmings are of terra cotta of the same color as the brick. The roof is of dark red tile.

The building is of slow burning construction throughout, with painted interior brick walls, exposed beams, maple floors, and hard pine finish. Throughout the dairy department, which has about 6,000 square feet of floor space, the floors are of tile and the walls enameled brick. The floor plans on the page opposite show the arrangement of offices, class rooms and laboratories.

The department is supplied with apparatus for studying the effect of grade angle, height of obstruction, height of hitch, size of wheel and weight of load on draft of wagons. A large model shows correct and incorrect methods of making and using the doubletree. A wooden model demonstrates the effect of high and low hitch and width of hock on the pulling capacity of the horse. A self registering dynamometer is used to determine the draft of vehicles and farm implements under varying conditions, a number of implements being kept for this special purpose. Drainage levels are used in leveling and laying out tile drains. The agricultural museum contains many of the latest patterns of farm machinery, including self binders and mowers from all the leading manufacturers. In the study of soils, the large glass house with its equipment of railroad tracks, trucks and pots affords opportunity for the student to test the adaptability of crops to various soils ; the fertilizer requirements of soils and to experiment on various other problems of crop growth. The soil physics laboratory is supplied with apparatus for studying the specific gravity of soils ; volume weight of soils ; power of loose soil to retain moisture ; power of compact soil to retain moisture ; rate of flow of air through soils ; rate of precolation of water through soils ; effect of mulches on evaporation of water from soils ; effect of cultivation on evaporation of water from soils ; power of dry soil to absorb moisture from air ; and the capillary rise of water through soils. Mechanical analyses are also made of typical soils.

In the study of crops, large use is made of the collection of dried specimens of grasses, grains and seeds. The grass garden contains about twenty-five varieties of grasses and clovers, growing side by side where comparisons may be made as to the value of each for pasture, meadow and grass. The farm is visited frequently by the students who make observations and studies of the practical methods there employed in the growing of crops and in the feeding and management of live stock. The live stock judging room is supplied with implements for precise measurement of animals and with score cards of all the different types of domestic animals. The students are here given opportunity to study every detail of conformation. The animals used are selected from the University farm or are contributed from time to time by the breeders of the state. Some of the best animals of their kind in the state have been brought here for the students to study. Numerous excursions are also made to the farms of leading breeders, both for the purpose of studying types and methods. The class room is provided with a stereoptican and a large collection of carefully selected lantern slides of the leading individuals of several breeds of live stock. The herd books of the several breeds are made use of in familiarizing the students in methods of tracing pedigrees and the practices of breeders' associations.

The dairy laboratory has one of the finest equipments in the country. In the spacious creamery room are a dozen different styles and sizes of cream separators and the student is enabled to obtain a thorough knowledge of the mechanism and efficiency of this class of machinery. There are also half a dozen styles of churns and butter workers of different types including some of the latest inventions. A number of hand power and steam turbine milk testers are supplied for testing milk and the products therefrom. The work of the student in this part of the dairy laboratory is checked up each day by means of eleven different report blanks, which the students are required to fill out and hand to the instructors in charge. The room in which the bottling, and pasteurizing of milk and cream is carried on is an exceptionally fine one. In it are vats, wash-sinks, separator, two styles of pasteurizing machinery, bottling apparatus and a large steam sterilizing oven. The cheese department has the use of spacious, well-lighted, making room and curing rooms. In the equipment are vats, three styles of presses, curdmills, etc., for the manufacture of Cheddar cheese, and the necessary apparatus for making brick and Edam cheese. Students in this part of the work make daily reports on five different forms of blanks. In an adjoining power house are found a boiler, two engines, pumps, and refrigerating machinery, which are operated by students under the direction of an instructor. The student is taught to make the best possible product with the least loss of raw material, and to handle the machinery carefully. Important points in the work are drawn out in the class rooms by means of lectures, recitations and written examinations.

Agricultural Chemistry. The department of agricultural chemistry occupies the greater part of the second floor of Townshend Hall. The main students' laboratory is at present fitted up with ninty-two desks, and when completely fitted up will accommodate one hundred and fifty students. Each desk contains a complete outfit of apparatus and chemicals necessary for the work in hand. The outfit in each desk is secured by combination locks. Special apparatus and chemicals are supplied from the store room. Each desk is supplied with gas and water. Hoods for evaporation and generation of noxious gases and liquids are conveniently arranged on both sides and one end of the laboratory. From the main laboratory, easy access is had to the balance room and private laboratory of instructor on one side and to the organic analysis and assistant's room and store room on the other. A room entirely detached from the main laboratory is fitted up for water analysis and for the polariscopic determination of sugar. The lecture room is capable of seating one hundred and fifty students. In connection with it is a preparation room, which is supplied with the necessary apparatus and specimens for illustrating the lectures. This floor also contains a resting room and a toilet room for young women.

Bacteriology. The first half of the term, during which this subject is taught, is taken up by lectures and recitations, the latter half is given to laboratory work. Bacteria are first studied in a general way and in their general relationship to man and his surroundings. Then is taken up a more specific study of their influence and work in soils in higher plant growth and in animal life, together with their important and manifold performances in milk, butter and cheese. In the laboratory is taught the preparation of culture media, the methods of study for bacteria, the isolation of pure cultures and the numerical examination of water, milk and air. A special room is set apart for this work provided with incubators, sterilizers and all other necessary apparatus. Students so desiring may elect advanced work along the lines indicated.

Botany. The department offers good facilities for instruction and investigation. The Botanical Building contains a large lecture room, museum, herbarium, three laboratory rooms, dark room, drying room, store room and offices. A large number of charts, many of them lithographic, photographs and mounted illustrative specimens are the other principal appliances for daily class work. In this room are placed fifteen of the more important popular journals of Botany for the use of students. The botanical books in the University Library, a valuable and growing collection, are largely used for reference in connection with the several courses. The museum contains a large amount of illustrative material; the native medicinal plants and the collection of Ohio woods being very complete. The State Herbarium consists of between fifteen and twenty thousand sheets of Ohio plants. The general herbarium is much larger. Professor Kellerman's private herbarium of twenty thousand specimens of parasitic fungi, is also used by the Department. The large laboratory is well equipped with dissecting and compound microscopes; also the usual appliances for doing both elementary and advanced histological work. One of the small laboratories is devoted to experimental work in vegetable physiology and the other to systematic Botany. The green-house attached to the Botanical building is an important adjunct to the department. There are four sections containing a total of nearly 3,000 feet of glass. It contains a large number of illustrative plants, about 3,000 specimens representing the principal plant families and belonging to several hundred species. The green-house furnishes much fresh material for laboratory use. It is also used as a laboratory to carry on special work when growing plants are used.

Domestic Science. The periods devoted specifically to the study of Domestic Science are quite fully outlined in the preceding pages and it seems unnecessary to elaborate here. Sufficient to say that the course aims to supplement the work of other departments and to apply it to practical home life. The study of Botany, Zoology, Chemistry, Physiology and Bacteriology makes it possible for the student to understand the functions of various organisms and to appreciate the changes constantly occurring in plants and animals. The needs of the body in a superficial way have long been taught, but it is imperative that every one who attempts to maintain life at its best, should know definitely what is required for a human being and how to provide it. A woman should be conversant with the food principles, know where they are to be found, in how large proportions they should be supplied, how they are best prepared for consumption and the effect of each in the body. In a general way she should be able to analyze disease and be prepared to guard against it. Again sociology has an especial bearing upon home life; the personal assistance given to individuals, either in the home or by means of charities, is largely delegated to women and they might accomplish far more for humanity if they gave less outright and were prepared to teach the dependents better means of helping themselves. Industrial activities demand consideration. The consumptive side of economics is as important as the productive side and belongs to women. They should know absolute values, from every standpoint, and how to apply scientific knowledge in the affairs of every day life, and this knowledge does not come by studying text books, but by actually dealing with things. The home is founded on and protected by sanitary and hygienic laws and the mastery of them is quite within the province of every woman, when competent teachers are prepared to expound them. Their study is of no less interest than that of other sciences and every science and art is made more vital and more fascinating by a knowledge of some definite way in which it may be applied.

The educative value of Domestic Science has been satisfactorily proved. It aids the student to observe, to reason, to work accurately and how to carry on scientific research relating to the improvement of home culture, in all phases of life. It provides a way to meet the demand for an ideal system of education for women; for more complete and appreciative living, for more adequate cultivation of body, mind and soul, the main object of all education.

Domestic Art. The object of this course is to give the student an insight into that cultural development of the race which has been gained through handwork. The work is taken up along advanced educational lines; the value of manual training is emphasized and an effort is made continually to correlate the subjects taught in the Department of Domestic Art with other college work, such as History, Botany, Literature, Anthropology, Sociology, Economics, Drawing, etc. It is felt that too much stress cannot be laid upon the development of character as gained through manual training, and besides giving that deftness of hand which is a needed accomplishment with every woman. It is believed that that education is incomplete which fails to develop the native artistic abilities of the pupil and give to her a training in ways and means of usefulness which shall make her succeed when she enters the world as home maker or wage earner. Too many women are useless drones in society, burdens in the home or the world at large because they have so few resources; they have not learned to adapt knowledge or to work out with their hands the useful and artistic ideas held in the mind. Emerson says: "The creation of beauty is art, and the love of beauty is taste." To develop good taste, is to insure homes of taste, and this implies architectural beauty of the house proper, artistic decoration of the interior and harmonious dressing of the inmates. Manifestly this involves the study of a number of subjects, all of which bear more or less directly upon the Domestic Arts. Taking as our ideal the thoroughly rounded character, the well developed woman physically, mentally and morally, we must add to all other knowledge those touches of grace, given, perhaps more especially than by any other lines of study, through a study of Art. It is through Art study that we come to appreciate beauty in line, form and color by applied work, following the recognized principles of the best artists we are able to develop originality and skill in ourselves. The work of the Art Department and the work of the Domestic Art courses are being arranged more and more to complement each other, and besides the technical training in sewing, necessary as a foundation to the right treatment of fabrics, the course is simply applied work in Art—'Art in every day relations.'

Drawing. The Department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for practical training in the same:

For freehand drawing, water color and oil painting:—A large studio, thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster casts of ornnments, flowers, fruit and the antique, and materials for "still life."

For clay-modeling:—A specially arranged and equipped studio, twenty-six by thirty-two feet, for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds, and lockers.

For mechanical drawing and mechanical architectural designing:—A large, well-lighted room, forty by eighty-five feet, provided with O. S. U. drawing tables (30 by 36 inch tops), a set of Schroeder models, a collection of shop drawings and facilities for blue printing.

For photography:—A well arranged and equipped dark room, printing apparatus, copying cameras, seven view cameras, lenses of long and short focus, telephotographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well selected collection of books pertaining to the work of the Department.

Geology. The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geographical survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. Orton Hall, completed at a cost of more than $100,000, is designed for the permanent accommodation of the large geological collection of the University and for the work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fire proof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room: at the left is the University library and reading room. The central and rear portion is occupied by the geological and paleontological museums. In the basement the economic museum is located. On the second floor is located the stratigraphical and petrographical laboratories and the archeological museum.

Horticulture and Forestry. This department has under its immediate control about twenty-five acres of land. About one-half of this area has been planted with numerous varieties of cultivated fruits. The remainder is devoted to market gardening. Students have an opportunity of observing all the operations carried on from the sowing of the seed and transplanting, to the harvesting and marketing of the crop. Among the facilities for instruction and illustration that deserve special notice are two vegetable forcing houses with packing rooms, tool rooms, etc. These houses are attached to Horticultural Hall, and are each one hundred and twenty feet long by twenty in width. They are heated by hot water. One interesting feature in the management of the forcing houses is the method of watering by subirrigation. This method had its origin in these houses and marks a great step in advance in green house management. Lettuce, radishes, cucumbers, parsley, cauliflower, onions, rhubarb, asparagus and other vegetables are grown in the forcing houses during the college year. Among the additional facilities provided for the illustration of the different courses in the department, and for practical training in the same are (1) orchards, containing well selected varieties of apple, pear, plum, cherry and quince: (2) a small vineyard, containing some of the standard varieties of grape; (3) small fruit plantations, stocked with some of the best varieties of strawberry, raspberry, blackberry, currant and gooseberry; (4) large vegetable gardens, with pipe-heated hot-beds, cold frames, conveniences for irrigation, experimental plats, etc.; (5) a small nursery and forest tree plantation, with practice rows for budding, grafting pruning and training; (6) ornamental grounds and native woodland, containing a large variety of evergreen and deciduous trees and shrubs; (7) a green-house, with an extensive collection of exotic plants; (8) a collection of seeds, woods and other preserved natural specimens; (9) a collection of fruit in jars, also models of apples, etc.; (10) a laboratory well equipped with dry ovens, balances, seed testers, and other appliances for study and research; (11) a collection of horticultural hand tools for budding, grafting, pruning, etc.; (12) a small apiary of a dozen or more colonies of bees.

Mechanical Engineering. The Mechanical Engineering Laboratory contains a large collection of steam and gas engines, steam and power pumps, engineering instruments and apparatus, models of machinery, and samples of engineering supplies which are instructive and are open to the inspection of the students in Agriculture and Dairying.

Physics. The Department of Physics occupies the west half of the first and second floors and basement of University Hall. The equipment allows full experimental illustration and a wide range of individual work by the student in the laboratory.

Physiology. Instruction in this subject is given by lectures, demonstrations and recitations. Incidental to the main work, so much of anatomy and histology is given as will render the processes going on in the living body comprehensible. A limited amount of laboratory work is introduced during the course so that the student may personally familiarize himself with the actual appearance of things discussed in the class room. The equipment for teaching and demonstrating in this department consists of numerous Azoux and other models, charts, physiological apparatus, skeletons, microscopes and other accessories ample to meet all requirements for thorough instruction.

Romance Languages. The department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps, including map of Paris; illustrated volumes showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in France at different epochs; large photographs and engravings of the principal French writers; collections of French prose extracts for use in sight reading.

Shopwork. The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making and forging. The carpenter and pattern shops are equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz planer, a circular rip and cross cut saw, a scroll saw, a trimmer and power grindstone. The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot power hammer, a blacksmith's drill and punch, shear and bar cutter. The blast for forges is furnished through underground piping by a 45 inch Buffalo pressure blower, and the smoke is removed by a 55 inch Buffalo exhaust fan overhead. Both of these fans are driven by a 15 horse-power electric motor.

Veterinary Medicine. Students in Agriculture taking required or elective work in veterinary medicine can avail themselves of the whole equipment of the College of Veterinary Medicine. For class room work a large number of papier-maché models, wet and dry anatomical specimens, sample horse-shoes, charts, diagrams and drawings, surgical instruments and apparatus are constantly employed to supplement text-book teaching in all classes. The Veterinary Hospital, a plain brick building, affords excellent facilities for the care and treatment of diseased and injured animals, giving the students an opportunity to become familiar with and learn practically the maladies to which domesticated animals are subject. It contains box stalls, stalls for cold water application, a large and well lighted operating hall and two special wards for smaller animals. A drug dispensary and office with telephone are on the first floor front of the building. The upper floor is occupied by the house surgeon and two students selected from the senior veterinary class, who have immediate charge of the animals left for treatment. The free clinic is held for two hours daily (Saturday included) at this building. During the clinic hours agricultural students taking Veterinary Medicine (29 and 30) and those electing Veterinary Medicine (19), are required to assist the instructors in all surgical operations (castration, spaying, examination for lameness, dental work, etc.) and to administer all medicines to sick animals, under the direction of the hospital staff. Inasmuch as from 1000 to 1500 animals are treated annually at this clinic, the students have ample opportunity to learn in a practical way the best methods of treating diseased and injured stock. A herd of fifty cattle, a drove of hogs, and several horses kept on the University farm furnish clinical material during the college year. The dairy herd is tested with tuberculin once a year, to determine if tuberculosis be present. The students conduct this test, under direction of the veterinary instructors, thus learning by actual doing, the modern method of diagnosing latent cases of bovine tuberculosis.

Zoology and Entomology. Work in this department is largely on the laboratory plan, the effort being to have each student become familiar with typical forms of animal life, acquire the power to discover facts for himself and use them in practical applications. Animals that have an important economic relation are used as examples for their respective groups. While the aim is to give a thorough and sound training in the underlying principles of Zoology and Entomology, the practical bearing of these is shown by use of such forms as the liver fluke of sheep to show effects and relations of parasitism, the earthworm in its relation to soil formation, trichina as affecting human health and meat exports, insects, both useful and injurious, fishes as a source of food, relation of birds to insect control and importance of certain groups of birds and mammals as the source of our domestic animals. Advanced courses provide for training in methods of research and especial attention is given to preparation for investigation as experiment station workers in Entomology or Zoology. The adjacent fields, wood, lake and river along with various well equipped laboratories, museum and department library give abundant opportunity for study. The collections of skeletons, birds and insects are especially rich. The department occupies the first and third floors and part of basement in the new Biological Hall and is well provided with laboratory rooms and space for special lines of work. The Lake Laboratory maintained at Sandusky and open from June 15 to September 15 offers courses of instruction and exceptional opportunities for original research in Entomology and Ichthyology. Particulars regarding it may be had by applying for special circular.

Library. The University Library is a well selected collection of 44,000 volumes. The character of the collection is high and the students in all departments of University work find it an excellent working library. The books occupy the first, main, and balcony floors of the east end of Orton Hall and on each floor is to be found reading room space with comfortable chairs and tables. The shelves are all open, each student having the privilege of going directly to them, thus gaining familiarity with books which is a source of power the value of which can scarcely be estimated. The students are not thrown entirely on their own resources however, the reference assistants being always ready to help a student in looking up his subject and also to instruct him in the best methods of using the books for himself. The library is gradually accumulating sets of scientific serials and transactions which are of the greatest value. Its periodical list at present numbers 353 titles. The students in the College of Agriculture and Domestic Science have in some respects especially excellent library facilities. The majority of the books bearing on their work are to be found in the General Library, but there is also in Townshend Hall a special department library and reading room. In the General Library are approximately complete sets of Agricultural Reports of all the states, and of the bulletins of the experiment stations and of the United States Department of Agriculture. In addition there is a good collection of general works and of periodicals treating on agriculture and its applied subjects. In the Department Library are kept the herd books, duplicate sets of United States Agricultural Reports, and Ohio Agricultural Reports, and a large number of papers. These the students can often read between classes, when there is not time to go to the General Library.

THE CHAPEL

THE GYMNASIUM

ADMISSION, ATTENDANCE AND GRADUATION

The entrance examinations for 1902 will be held on Monday, September 22.

Applicants for admission to the College of Agriculture and Domestic Science must be provided with credentials of scholarship from their last instructors, or from the last institution with which they have been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of colleges of approved standing and of normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank, or standing in it. A copy of the course of study should accompany the certificate, and both should be sent to the University not later than the first of September. The University cannot promise this recognition to certificates presented during the entrance week.

Blank certificates will be furnished on application.

Applicants for admission who come from other colleges or universities, are required to bring certificates of honorable dismission.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain high schools of the State; and the graduates of these high schools are admitted on presentation of cards issued to them at their graduation through their principals.

3. All other applicants are subject to examination on the group of studies mentioned below.

Full equivalents for text-books named will be accepted.

REQUIREMENTS FOR ADMISSION TO FOUR YEAR COURSES

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.* Physical Geography, one unit; United States History, one unit.

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject

drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, *or equivalents:* Shakespeare's *Merchant of Venice*, *Julius Cæsar*, *and Macbeth;* Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso;* Burke's *Conciliation with the Colonies;* Macaulay's *Essays on Milton and Addison;* The Sir Roger de Coverly Papers in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.* English Composition and Rhetoric, two units; English Classics, one unit.

3. *Algebra*—Taylor's Academic or equivalent. Two units.

4. *Plane Geometry*—Venable, Wentworth, White or Wells, or equivalent. One unit.

5. *Botany*—Gray or Kellerman's Botany or Flora, or equivalent. One unit.

6. *Physics*—Gage, Carhart and Chute, Avery or Appleton, or equivalent. Two units.

7. *Civil Government*—Fiske or Thorpe preferred. One unit.

8. *History*—Meyer's *General History*, or equivalent. One unit.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *Le Bello Gallico*. Three units.

Or French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeeth) century should be included. Three units.

Or German—Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalent must have been read (not less than 300 pages).

Joynes' or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit Freytag, Die Volerne Handschrift, Gerstäcker Irrfahrten. Three units.

For the present, the *German or French* required for admission may be begun at the University, but without University credits. A student may enter with conditions, amounting to three units, not counting German or French.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture. See page 19. Students may prepare in these subjects for entrance to the four year courses by entering the Short Course in Agriculture.

REQUIREMENTS FOR THE SHORT COURSE IN DOMESTIC SCIENCE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geograpy, English Grammar and United States History.*
2. *English*—(*a*) Composition and Rhetoric; (*b*) English Classics.
3. *Algebra.*
4. *Plane Geometry.*
7. *Civil Government.*
8. *General History.*

ADMISSION TO THE SHORT COURSE IN AGRICULTURE AND THE COURSE IN DAIRYING

Applicants, unless over twenty-one, must pass an examination in *Arithmetic, Geography, Grammar* and *United States History*, or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Courses may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions.

1. The regular entrance requirements must be satisfied.

But applicants who are not less than twenty-one years of age, after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the Faculty to any class in the College; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for degrees, he shall take the omitted entrance examinations at least two years before the degree is conferred.

2. On entering the College, students desiring to pursue special work are required to lay before the Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other university or college must first obtain admission in the manner already described. They will then be examined on the undergraduate studies for which they ask credit.

2. Applicants who come from the collegiate department of an approved college, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismission, will be admitted without examination, except such as may be necessary to determine what credit they are to receive here for the work done in the college from which they come.

REGISTRATION

All students are required to register and pay their term fees on or before the first day of each term, between the hours of 8:00 a. m. and 12 m., or between 1:00 and 4:00 p. m., central standard time.

Former students who fail to register as above will be charged one dollar in addition to the usual incidental fee, for the first day of delinquency, and fifty cents additional for each subsequent day.

No candidate for graduation will be permitted to register for the second term of his graduating year, except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

AMOUNT OF WORK

No student is permitted to take less than fifteen credit hours a week of any sort of work, except by special permission, and no student will be permitted to take more than the regular work of the class to which he belongs, who has not passed all his work for the preceding term. A credit hour means one hour class room work in lecture, recitation or quiz, or two hours of laboratory work.

ELECTIVE STUDIES

All elections of work in continuous studies, when once made, are understood to be made for the entire collegiate year.

The right is reserved to each professor to withdraw the offer of any elective study when it is not chosen by at least four persons.

EXAMINATION AND STANDINGS

At the close of any term a student failing to pass in two-thirds of his work will be considered on probation; and a second similar failure will forfeit his connection with the University.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than December 14th of the fourth year; and the completed thesis must be presented in duplicate, on standard paper of certain size and quality, typewritten, bound, and titled, not later than the second Saturday before Commencement Day.

DEGREES

The degree of Bachelor of Science in Agriculture is conferred on students who have completed the Course in Agriculture; that of Bachelor of Science in Horticulture and Forestry upon those who have completed the Course in Horticulture and Forestry; and that of Bachelor of Science in Domestic Science upon those who have completed the course in Domestic Science. Master degrees are conferred upon graduates of these courses at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved Course of study in the University. Each candidate is required in addition to present an acceptable thesis upon some subject connected with his Course of study.

THE CONVOCATION

At the opening of the year in September, 1900, the daily chapel exercises were abandoned. As a substitute for the short daily exercise an entire hour is now devoted to a convocation at which the President presides. In addition to devotional exercises an address is delivered upon some suitable topic. During this hour the libraries and laboratories are closed and no other University exercises occur. It is expected that the Faculty and students will attend. The hour is definitely fixed at ten o'clock on Wednesday of each week. The public is always welcome at the Convocation.

AIDS TO MORAL AND RELIGIOUS CULTURE

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y. M. C. A. work. Services are held weekly and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at 1610 Highland Street as a headquarters for the association. It is hoped that in the near future a permanent home for the association may be provided.

An equally commendable organization is the Young Women's Christian Association affiliated with the State Organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a handbook of information concerning the University, or for information concerning rooms, boarding or employment. Address, O. S. U. Y. M. C. A., 1610 Highland Street, Columbus.

LITERARY AND OTHER SOCIETIES

There are a large number of literary and technical societies and clubs which are open to the students of all colleges of the University. Among the literary societies are the Alcyone, Athenæum, Horton and Townshend Societies open to young men; and the Browning and Philomathean Societies open to young women. These societies have commodious and well furnished apartments. They meet weekly and their work, offering to the students a very desirable training in composition, public speaking and parliamentary order, is a valuable adjunct to collegiate education. Among technical societies may be mentioned the Asparagus, Biological, Ornithological and Political Science Clubs. The O. S. U. Sketch Club promotes interest in art among the students of the University, while various musical organizations do the same service for music.

EXPENSES

COLLEGE DUES

Incidental Fee. Each student is required to pay an incidental fee of six dollars per term.

The gymnasium is free to all students but those desiring a locker will be charged a fee of one dollar a term.

All term dues must be paid at the opening of each term as a condition of admission to classes.

A fee of five dollars to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred.

For a fuller statement of expenses see general catalogue.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms for students who desire to board themselves and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two and one-half dollars to three and one-half dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses :

	Low	Average	High
Incidental fees	$ 18 00	$ 18 00	$ 18 00
Laboratory materials	10 00	15 00	25 00
Books and stationery	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	.....	.....
Board	75 00	115 00	175 00
Uniform	14 00	14 00	14 00
	$146 50	$224 00	$347 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued. There is no need of a student spending more than the "average" for items mentioned ; many spend less.

FREE SCHOLARSHIPS

A free scholarship good for two years is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture and Domestic Science, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the course. Students taking laboratory work are required to make a deposit to cover materials broken or used up, the same as other students. The free scholarship can not be used in the special winter term course in dairying. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiry should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of this College.

SELF-SUPPORT

There is a large amount of work on the University farm and campus and in the garden, orchard and greenhouses, which can be done by students, and for which they are paid at current rates for such labor. By this means, together with what can be earned by steady labor during the summer vacations, a considerable number of students defray all their expenses.

Preference is given to students who are willing to devote a certain number of hours each day to the work assigned.

Work cannot be promised to all applicants, and is not guaranteed to any.

Applications for employment should be made to Frank Ruhlen, Instructor in Zootechny. Labor blanks will be furnished upon request.

THE GRADUATE SCHOOL OF AGRICULTURE

HISTORICAL

The movement for a graduate summer school of agriculture was inaugurated at the Ohio State University in 1900, when on the recommendation of the President of the University and Dean of the College of Agriculture and Domestic Science, the Board of Trustees took action in favor of the establishment of such a school and made provision for its financial support. The plan for this school was presented to the Association of American Agricultural Colleges and Experiment Stations at its annual convention in November, 1900, when the matter was referred to its Executive Committee. At the convention of 1901, this Committee reported favorably on the plan and recommended that if the success of the first session seemed to justify the continuation of the school it be made a cooperative enterprise under the control of the Association. This action of the Committee was endorsed by the Association.

The Honorable Secretary of Agriculture has also expressed his cordial approval of the movement for the establishment of this school, and, acting on his advice, the Director of the Office of Experiment Stations has consented to act as its Dean, and other officers of the Department will be on its faculty.

INAUGURAL EXERCISES

As the opening of this graduate school will be a new step of progress in agricultural education in the United States, the objects and aims of this enterprise will be explained at inaugural exercises which will be held Monday, July 7, at 8 P. M., in the Chapel of Ohio State University. The public as well as the faculty and students of the school are cordially invited to these exercises. It is expected that addresses will be given by Hon. James Wilson, Secretary of Agriculture ; Hon. W. M. Liggett, Dean of the College of Agriculture of the University of Minnesota and President of the Association of American Agricultural Colleges and Experiment Stations ; Dr. H. C. White, President of Georgia State College of Agriculture and Mechanic Arts and Member of Executive Committee of A. A. A. C. E. S. ; Dr. W. O. Thompson, President of Ohio State University, and Dr. A. C. True, Director of the Office of Experiment Stations, and Dean of the Graduate School of Agriculture.

PURPOSE OF THE SCHOOL

The purpose of the graduate school of agriculture is to give advanced instruction in the science of agriculture, and particularly in the methods of investigating agricultural problems and teaching agricultural subjects.

PLACE OF SESSIONS

The sessions of the school will be held in Townshend Hall of Ohio State University.

TERM

The school will be in session four weeks, from July 7 to August 1, 1902, The school day will consist of three periods of two hours each—8–10 and 10–12 A. M. and 2–4 P. M., except on Saturdays when there will be exercises in the first two periods only. Facilities for registration will be provided on Saturday, July 5, and the exercises of the school will begin promptly at 8 A. M., Monday, July 7.

REQUIREMENTS FOR ADMISSION

Only persons who have completed a college course and taken a bachelor's degree will be admitted to the privileges of the school, except that admission may be granted to non-graduates who are recommended by the faculties of the colleges with which they are associated as persons properly qualified to profit by advanced instruction in agriculture. The school is open on equal terms to both sexes.

COURSES OF STUDY

Instruction will be given in three main lines—agronomy, zootechny and dairying. The courses in these subjects will for the most part run parallel. A special course in plant and animal breeding will also be given.

The course in agronomy will include climatology and soil physics, vegetable physiology, fertilizers and the culture and management of field crops.

The course in zootechny will include the principles of animal form, the breeding and nutrition of domestic animals and the application of these principles to the choice and management of beef and dairy cattle, sheep, swine and horses.

The course in dairying will include the science of dairying, especially its chemistry and bacteriology, the application of the science in practice. and demonstrations of improved methods of butter and cheese-making.

The course in plant and animal breeding will deal chiefly with methods of investigation and instruction in this subject, and will be so arranged that it can be taken by students in any of the other courses.

The Saturday morning periods will be devoted to general exercises in agricultural pedagogy and lectures on special topics of general interest.

METHODS OF INSTRUCTION

Instruction will be given by lectures, seminars, and laboratory demonstrations.

FACILITIES FOR INSTRUCTION

The school will have the use of the well appointed lecture rooms, thoroughly equipped laboratories and agricultural library of the college of agriculture of the University. This college is especially well equipped with apparatus in soil physics and dairying. Animals of different kinds and breeds will be furnished for demonstration exercises. Lectures will be illustrated with natural objects, lantern slides, photographs, charts, etc.

Faculty of the Graduate School of Agriculture

William Oxley Thompson, D. D., LL. D., President.
Alfred Charles True, Ph. D., Dean.
Thomas Forsyth Hunt, M. S., Registrar.

INSTRUCTORS IN AGRONOMY

Soil Climatology. Prof. F. H. King, Chief of Division of Soil Management, Bureau of Soils, U. S. Department of Agriculture.

Soils. Prof. Milton Whitney, Chief of Bureau of Soils, U. S. Department of Agriculture; Lyman J. Briggs, Ph. D., Soil Physicist, Bureau of Soils, U. S. Department of Agriculture; W. D. Gibbs, M. S., Professor of Agriculture, New Hampshire State College, and Director and Agriculturist of the New Hampshire Agricultural Experiment Station.

Fertilizers. E. B. Voorhees. D. S., Professor of Agriculture, New Jersey State College for the Benefit of Agriculture and the Mechanic Arts, and Director of the New Jersey Agricultural Experiment Stations; H.J. Wheeler, Ph. D., Professor of Geology, Rhode Island College of Agriculture and Mechanic Arts, and Director and Chemist of the Rhode Island Agricultural Experiment Station.

Principles of Plant Production and their Application to Field Crops. Prof. B. T. Galloway, Chief of Bureau of Plant Industry, U. S. Department of Agriculture.

MAIZE. Cyril G. Hopkins, Ph. D., Professor of Agronomy, College of Agriculture of the University of Illinois, and Agronomist and Chemist of Illinois Agricultural Experiment Station.

COTTON. John F. Duggar, M. S., Professor of Agriculture, Alabama Polytechnic Institute, and Agriculturist of the Alabama Agricultural Experiment Station.

INSTRUCTORS IN ZOOTECHNY

Nutrition of Animals. H. P. Armsby, Ph. D., Lecturer on Stock Feeding, Pennsylvania State College, and Director of the Pennsylvania Agricultural Experiment Station; W. H. Jordan, D. S., Director of New York State Agricultural Experiment Station.

Animal Production and Conformation. BEEF CATTLE. C. F. Curtiss, M. S. Agr., Professor of Agriculture, Iowa State College of Agriculture and Mechanic Arts, and Director of the Iowa Agricultural Experiment Station; H. J. Waters, B. S. A., Dean of the College of Agriculture and Mechanic Arts of the University of Missouri and Director of the Missouri Agricultural Experiment Station.

DAIRY CATTLE. M. A. Scovell, M. S., Director and Chemist of the Kentucky Agricultural Experiment Station; T. L. Haecker, Professor of Dairy Husbandry, College of Agriculture of the University of Minnesota; C. D. Smith, M. S., Superintendent of Farmers' Institutes and Dean of the Special Courses, Michigan Agricultural College, and Director of the Michigan Agricultural Experiment Station.

HORSES. Thomas F. Hunt, M. S., Dean, and Professor of Agriculture of the College of Agriculture and Domestic Science of Ohio State University.

SHEEP AND SWINE. John A. Craig, B. S. A., Editor of Iowa Homestead, former Professor of Animal Husbandry, Iowa State College of Agriculture and Mechanic Arts.

INSTRUCTORS IN DAIRYING

The Chemistry and Bacteriology of Dairying. H. W. Conn, Ph. D., Professor of Biology, Wesleyan University, and Bacteriologist of the Storr Agricultural Experiment Station ; L. L. Van Slyke, Ph. D., Chemist of the New York State Agricultural Experiment Station.

Methods of Butter and Cheese-Making. H. H. Wing, M. S., Assistant Professor of Animal Industry and Dairy Husbandry, Cornell University and Agricultural Experiment Station ; G. L. McKay, Professor of Dairying, Iowa State College of Agriculture and Mechanic Arts, and Agricultural Experiment Station ; J. W. Decker, B. Agr., Professor of Dairying, Ohio State University.

Instruction and Research in Dairying in Foreign Countries. E. W. Allen, Ph. D., Assistant Director, Office of Experiment Stations, U. S. Department of Agriculture.

Commercial Aspects of Dairying. H. E. Alvord, C. E., Chief of Dairy Division, Bureau of Animal Industry, U. S. Department of Agriculture.

INSTRUCTORS IN PLANT AND ANIMAL BREEDING

Principles of Breeding. L. H. Bailey, M. S., Professor of Horticulture, Cornell University, and Horticulturist of Cornell Agricultural Experiment Station ; Eugene Davenport, M. Agr., Dean, and Professor of Animal Husbandry, College of Agriculture of the University of Illinois, and Director of the Illinois Agricultural Experiment Station.

Methods of Instruction and Investigation. BREEDING OF PLANTS. H. J. Webber, Ph. D., in charge of Laboratory of Plant Breeding, Bureau of Plant Industry, U. S. Department of Agriculture ; W. M. Hays, M. S., Professor of Agriculture, College of Agriculture of the University of Minnesota, and Agriculturist of the Minnesota Agricultural Experiment Station.

BREEDING OF ANIMALS. C. S. Plumb, B. S., Professor of Animal Industry, Purdue University, and Director of the Indiana Agricultural Experiment Station.

EXPENSES OF THE GRADUATE SCHOOL OF AGRICULTURE

A matriculation fee of six dollars will be charged each student for the whole session or any part thereof. This is the fee regularly charged by the Ohio State University for each term. No laboratory fees will be charged. Board and room may be obtained in the neighborhood of the University for from five dollars to seven dollars per week. The north dormitory at the Neil Avenue entrance to the University grounds has thirty-four rooms. Five dollars a week will be charged for board and room—a single occupant to a room. Table board will be four dollars per week.

CORRESPONDENCE

All correspondence relating to membership in this school should be addressed to Thomas F. Hunt, Registrar, Ohio State University, Columbus, Ohio.

THESES OF THE CLASS OF 1902 OF COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

BACHELOR OF SCIENCE

IN AGRICULTURE

Harry Glenn Beale..Mr. Sterling
Thesis: The Influence of Rainfall and Temperature on the Production of Corn in the Corn Growing Regions of the United States.

Herbert Lucius Belden................................Middlefield
Thesis: The History and Characteristics of the Channel Island Breeds of Cattle.

John Thomas Dallas......................................Columbus
Thesis: The Need of Cellulose by Growing Ruminants.

Albert Edward Day..Mt. Carmel
Thesis: Factors which Affect the Creaming of Milk.

LaMotte Ruhlen..Plain City
Thesis: A Comparative Study of the Wool of the Different Breeds of Sheep in the United States and Canada.

Feelan Wilbert Schaeffer................................Columbus
Thesis: Pasteurization as a Means of Controlling Fermentation in Milk.

Edward Lee Shaw..Newark
Thesis: The History and Characteristics of Southdown Sheep.

BACHELOR OF SCIENCE

IN HORTICULTURE AND FORESTRY

Herman Alfred Clark..Medina
Thesis: A Comparative Study of the Varieties of the Apple.

BACHELOR OF SCIENCE

IN DOMESTIC SCIENCE

Mamie Faye Hill..Columbus
Thesis: Public Charities in Ohio; Their Development and Distribution.

Ida Marshall..Hemlock
Thesis: Starch; Its Properties and Economic Uses.

ENROLLMENT IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE, 1901-1902

GRADUATE STUDENTS

Bogue, Earnest Everett	B. Sc. (1894) M. Sc. (1896)	Columbus
Fain, John Richard	B. S	Knoxville, Tenn

UNDERGRADUATE STUDENTS

Adams, Charles Randolph	Agr.	First	Prairie Depot
Barrick, Robert Henry	Dairy		Columbus
Barth, Monetta Winfield	Dairy		New Bremen
Batterson, Annie Elizabeth	Dom. Sci.	Second	Grand View
Beale, Harry Glenn	Agr.	Fourth	Mt. Sterling
Beattie, James Herbert	H. and F.	First	Zanesville
Belden, Herbert Lucius	Agr.	Fourth	Middlefield
Bickham, Clifford Albert	Agr. S.	First	Huntsville
Biddison, Bertha Minnie	Dom. Sci.	First	Glouster
Blachley, Bertha	Dom. Sci.	First	Columbus
Booth, Robert Argyll	Dairy		Cloverdale, Va.
Bowman, Duiguid Abraham	H. and F.	First	Columbus
Bowser, Earl Levi	Agr.	First	Archibald
Boynton, Frank J	Agr. S.	Second	Haverhill
Breckler, Leo Ambrose	Agr. S.	Second	Defiance
Breese, Clarence Nye	Agr.	Special	Lima
Bugby, Morris O	Agr.	Third	Kingsville
Case, Aubrey Edmund	Agr. S.	First	Hudson
Campbell, Clara Naomi	Dom. Sci.	First	Columbus
Clapp, Ernest Talbot	Agr. S.	Second	Chatham
Clark, Herman Alfred	H. and F.	Fourth	Medina
Clark, Ralph R	Dairy		Columbus
Clawson, Lucy Blanche	Dom. Sci.	Third	Okeana
Clevenger, William Leander	Agr. S.	First	Fletcher
Coon, Fred Lornce	Dairy		Swanton
Coberly, Edward D	H. and F.	Second	Georgesville
Cochran, George C	Dairy		Russelville
Coffman, Ada Catherine	Dom. Sci.	Second	Lewisburg
Crabb, George Arthur	Agr. S.	First	South Warsaw
Crabb, James Byrl	Agr.	Third	Mt. Sterling
Crabb, Floi Euphemia	Dom. Sci.	First	Mt. Sterling
Crumrine, George Ray	Agr. S.	Second	Nova
Dallas, John Thomas	Agr.	Fourth	Columbus
Day, Albert Edward	Agr.	Fourth	Mt. Carmel
De Frees, Raymond G	H. and F.	First	Troy
Degenfelder, Joseph Charles	Dairy		Swanton
Demorest, H. R	Agr.	Second	
Demuth, Charles Alfred	Agr. S.	First	Waterville

DeVore, David	Agr. S.	First	Red Oak
Ditto, Theodore Walter	Agr.	Third	Delphos
Doneghue, Ray Claude	Agr. S.	First	Columbia Station
Downs, Frank Isham	Agr.	First	Waterville
Dun, Hattie Franklin	Dom. Sci.	Second	Columbus
Dunlap, S. Arthur	Agr.	Second	Williamsport
Dutton, Charles A.	Dairy		Middleburgh
Ealy, Simon Peter	Dairy		Blacklick
Easton, Arthur Perry	Agr.	First	Springboro
Eichelberger, Floyd E.	Agr.	First	Jeffersonville
Eckman, Otto Leo	Agr.	First	Winchester
Eisele, Bessye Thelma	Dom. Sci.	First	Columbus
Ellison, Andrew Winslow	Dairy		Ft. Wayne, Ind.
Elzey, Charles Russell	Dairy		Waynesville
Ertel, Wilbur Aaron	Dairy		Oregonia
Estle, Fred	Agr.	First	Springfield
Fauver, Clare	Agr. S.	First	Ridgeville Corners
Fauver, Lorenzo Donaldson	Agr. S.	Second	Ridgeville Corners
Ferguson, Ollie	Agr.	Third	Springfield
Finney, Elkana Elhana	Agr.	First	Cedarville
Fippin, Edgar John	Agr. S.	First	Camp Chase
Florence, Walter Tuttle	Agr. S.	First	Plain City
Folsom, James Alfred	Agr. S.	Second	Franklin Furnace
Foster, Chester Glenn	Agr.	First	London
Foster, Emma Warwick	Dom. Sci.	Third	Higbys
Frank, John Nickolas	H. and F.	Second	North Amherst
Freyre, Alexander	Agr. S.	First	Santa Fe, Argentine Rep.
Glass, Frank Ingersoll	Dairy		Cold Spring, Ind.
Graber, Frank Howard	Dairy		Mt. Eaton
Hagerman, Will Carlton	Agr S.	First	Mansfield
Halverstadt, Clark J	Agr.	First	Letonia
Hamilton, Frank Edward	Agr.	Fourth	Brownsville
Hamilton, Henry Hoge	Agr.	First	Brownsville
Harter, Leslie Allison	Agr. S.	First	Delaware
Hatfield, Clifford Christian	Agr.	Second	Lebanon
Hayes, Richard Miles	Dairy		Jefferson
Hiatt, Frank Waldo	Dairy		Gratiot
Hill, Mamie Faye	Dom. Sci.	Fourth	Columbus
Hirsch, Frieda	Dom. Sci.	First	Columbus
Hitchcock, Lester Eugene	Dairy		Galena
Holl, Edgar David	Agr.	First	New Berlin
Hollister, Ruth Amanda	Dom. Sci.	Second	Galion
Holloway, Carrie	Dom. Sci.	Special	Columbus
Hoover, Clarence Boal	Agr.	Third	Columbus
Hoover, Susan Corwin	Dom. Sci.	Special	Columbus
Huddleson, Herbert	Agr. S.	First	Guilford, Ind.
Hudson, James Frank	Agr.	Special	Wayland
Huenke, Clifford Victor	Dairy		New Bremen
Hyatt, Charles Daniel	Agr. S.	First	Augusta
Hyatt, James Vernon	Agr. S.	Second	Augusta
Hyde, George C.	Agr. S.	First	Warren
Hyde, Robert Linton	Agr.	First	Frankfort
Inskeep, Guy Hamilton	Agr. S.	First	Bellefontaine
Janeway, Mary Viola	Dom. Sci.	First	Columbus
Jefferson, John Howard	Agr. S.	Second	Madison Mills
Jennings, Otto Emery	Agr.	Fourth	Olena
Jones, Lloyd	Agr.	Third	Columbus
Jossi, Gottfried	Dairy		Salem
Jotter, Ernest Victor	H. and F.	Special	Monroe
Kauffman, Margaret, B. Ph.	Dom. Sci.	Special	Columbus

Kellerman, Edna	Dom. Sci.	First	Columbus
Kumler, Edward Wayne.	Dairy		Basil
Lanman, Faith Robinson	Dom. Sci.	Third	Columbus
Lawson, James Williams	Dairy		Centreville
Long, Frank C	H. and F.	Third	West Sonora
Long, Jean Paul	Agr.	Second	Columbus
Loomis, Charles Clarence.	Agr.	First	Bowling Green
Lunn, Benjamin Vastine	Dairy		Columbus
Mangold, E. Frank	Agr.	Special	Sonora
Mangum, Benedict Wyley	Agr. S.	First	North Benton
Mark, Clara Gould	Dom. Sci.	Second	Columbus
Markel, Dora	Dom. Sci.	First	Kingston
Marshall, Ida	Dom. Sci.	Fourth	Hemlock
Matthews, Bessie	Dom. Sci. S.	First	Sunbury
Meyers, Adah Lucy	Dom. Sci.	Second	Columbus
Minns, Edward Russell	Agr.	First	Lodi
Miskimen, Burt	Agr. S.	First	Plainfield
Morton, Charles Owen	Agr. S.	First	Burton
McClelland, Chester Arthur	Agr.	Third	Terrace Park
McClimans, Nellie Rhoda	Dom. Sci. S.	First	Mt. Sterling
McClintock, James Earl	Agr. S.	First	Summerfield
McKinley, Emma Evans	Dom. Sci.	First	Columbus
McMahon, Mary Gertrude	Dom. Sci.	Third	Columbus
McMullen, Francis Patriot	Dairy		New Douglas, Ill.
McNutt, John Chester	Agr. S.	First	Kingsville
Nash, Dell Henry	Agr. S.	First	Mantua
Nichols, Anne Victorine	Dom. Sci.	First	Chillicothe
Nichols, Orra A.	Agr. S.	Second	Medina
Oberlin, Mary Lavina	Dom. Sci.	First	Massillon
Oliver, Robert Evin	Agr.	Second	Chillicothe
Orebough, Ralph H	Agr. S.	First	Columbus
Oyler, Charles Edward	Dairy		Lithopolis
Palmer, Lee Buckland	Agr. S.	Second	Reynoldsburg
Palmer, William Henry	Agr.	First	Thurston
Parker, Harvey Erastus	Dairy		Aurora
Petty, William Hazlett	Dairy		Pickerington
Pheneger, George Rudolph	Dairy		Tolumne, Cal.
Pinkvoss, Dangers Rolf	Dairy		Camp Dennison
Poindexter, Charles Cardoza	Agr.	Third	Parkersburg, W. Va.
Poston, Emerson Scott	Agr.	First	Haydenville
Quiroga, Modesto	Agr.	Second	San Louis, Argentine Rep.
Rowe, Harry Odell	Agr. S.	First	Belvidere, Ill.
Rubins, Frank	Agr.	First	Kenton
Ruhlen, La Motte	Agr.	Fourth	Plain City
Schaeffer, Freelan Wilbert	Agr.	Fourth	Columbus
Schmiesing, Benjamin F	Dairy		Minster
Shaw, Edward Lee	Agr.	Fourth	Newark
Shaw, Norman Ewing	Agr. S.	First	Nice
Sherman, Channell Howard	Dairy		Mt. Vernon
Sherwood, Gertrude	Dom. Sci. S.	First	Columbus
Shields, Jeannette	Dom. Sci.	Special	Columbus
Sigrist, Lewis Marion	Agr. S.	First	Congress
*Sigrist, John Larkins	Agr.	Fourth	Congress
Smith, Lindley M	Agr.	First	Chesterhill
Snell, John	Dairy		West View
Snow, Henry Preston	Agr.	First	Urbana
Spahlinger, George Frederick	Agr.	Second	Windham

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*Died, October 28th, 1901.

Spitler, Alice	Dom. Sci.	First	Dayton
Stafford, John Edward	Dairy		Trotwood
Staub, Otto	Dairy		New York Mills, N. Y.
Steward, Alice Ione	Dom. Sci.	Second	Columbus
Stewart, Effie Edith	Dom. Sci.	Second	Marcy
Stillwell, Margaret	Dom. Sci. S	First	Columbus
Stock, William Frank	Agr. S.	First	Seven Mile
Stormont, John Earl	Dairy		Xenia
Studer, Benjamin	Dairy		Trail
Sullivan, Fanny	Dom. Sci.	Second	Rex
Tangeman, Clara Margaret	Dom. Sci.	Second	New Bremen
Tarpning, Clifton Carmel	Dairy		Plain City
Thayer, Clyde Daniel	Agr.	First	Lima
Thomas, Frank Leslie	Agr. S.	Second	Chesterhill
Thompson, Bertha Louise	Dom. Sci. S	First	Columbus
Thompson, Glenn Otto	Agr. S.	First	Cedar Valley
Tillman, Opal	Dom. Sci.	First	Columbus
Tobias, Deane Abram	Agr. S.	Second	Bucyrus
Topliff, Harry Lewis	Agr.	First	La Rue
Twitchell, Lee Downs	H. and F.	Third	Mansfield
Van Tassel, Charles	Dairy		Franklinton, N. Y.
Waid, Earnest David	Agr. S.	First	Wauseon
Walker, Arthur Fredrick	Agr. S.	First	Cleveland
Walker, Rolla E	Agr. S.	Second	Attica
Washburn, Wayne	Agr. S.	Second	Greenwich
Watt, Vivien	Dom. Sci.	First	Freeport
Weaver, Samuel James	Agr. S.	Second	Leipsic
Weber, Sophia Frances	Dom. Sci.	Third	Columbus
Weist, Dwight Wilson	Agr.	First	Basil
Welling, Mary Alice	Dom. Sci.	First	Columbus
West, Ada Clara	Dom. Sci.	First	Columbus
West, Frederick Long	Agr.	First	Bloomingburg
West, James Clyde	Agr. S.	Second	St. Paris
Wheeler, Thomas Leroy	Agr.	Second	Chillicothe
Whipp, Wendell Edwin	Agr.	First	Dayton
White, Garret Brown	Agr. S.	Second	Bucyrus
White, James Chalmer	Agr.	First	Lebanon
Wilder, Vine Alva	Dairy		Cork
Wolf, Mary Hulda	Dom. Sci. S	First	Campbellstown
Woodruff, Joseph Daniel	Dairy		Zanesville
Zehring, Edgar Levi	Agr. S.	Second	Germantown

LIST OF ALUMNI AND OF THE EX-STUDENTS OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE SINCE 1892

Abbott, Arthur G., B. Sc. (Agr.)	1899 *	Wadsworth, O., Dairy Farmer
Abbott, Carl B	(1898-1900)†	Medina, O., Farmer
Abbott, George F	(1899-1901)	Medina, O., Farmer
Adams, Judson Jay	(1896-1897)	
Adams, Walter Lewis	(1897-1898)	Station "A," Columbus, O., Employe Adams Express Co.
Adcock, James G	(1899-1900)	Webb Summit, O., Stock Farmer
Allen, Glen Lloyd	(1898-1899)‡	Washington C. H., O., Farmer
Alpeter, John Edward	(1896-1897)	State Hospital, Massillon, O., Farmer
Alvord, Lewis Upton	(1896-1897)‡	Bement, Ill.
Anderson, J. B	(1897-1899)	Died, June 28, 1901
Andress, Henry	(1898-1899)	R. R. No. 1, North Amherst, O., Farmer
Andrew, Harry S	(1900-1901)	Dean, O., Farmer
Armstrong, Clara, B. Sc. (D. Sc.)	1901	319 King Ave., Columbus, O.
Armstrong, Edgar Manley	(1899-1900)	Chicago, Ill., Employe Walker-Gordon Laboratory Farm.
Armstrong, Gertrude	(1900-1901)	Bannock, O.
Arney, Samuel H	(1900-1901)	Lancaster, O., Dairyman
Arnold, Frank W	(1899-1900)	Conneaut, O., Deputy Collector Custom House.
Arnold, Margaret	(1900-1901)	Wellsville, O.
Aten, Franklin Stewart	(1895-1897)	Nevada, O., Stock Farmer
Atherton, William T	(1898-1901)	Carrollton, O., Student College of Veterinary Medicine, O. S. U.
Auld, Jay Mc	(1895-1896)	Iberia, O., Farmer
Aumend, Manuel Grant	(1891-1894)	Delta, O., Teacher and Farmer
Ayers, Samuel Dana	(1892-1895)	Orwell, O., Creamery Superintendent
Baer, Philip, Jr., B. Sc. (Agr.)	1897	Canal Dover, O., Dairy Farmer
Bailey, Alva C	(1900-1901)	Tacoma, O., Superintendent Belmont Stock and Dairy Farm.
Baldwin, Ethel	(1899-1900)	1227 Neil Ave., Columbus, O.
Baldwin, Linus R	(1893-1896)	Tiger, O., Farmer
Ball, F. C	(1895-1896)	Mt. Vernon, O., Dairy Farmer
Baker, William Hollister, B. Agr	1892	R. F. D. No. 3, Trenton, Mo., Stock Farmer
Barcus, Eliza	(1900-1901)	237 S. Third St., Columbus, O.
Barker, Asbury Fletch	(1895-1897)	R. R. No. 1, New Lexington, O., Farmer
Baughman, Chas. Francis	(1893-1894)‡	Springboro, O.
Bauman, Christian William	(1899-1900)	Axtel, O., Swiss Cheese-maker and Butter-Maker.

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* Indicates student completed four years' course in the year and with the degree mentioned.

† Indicates student was in College the year or years mentioned, but did not graduate.

‡ Not heard from since January, 1901.

Beal, John William	(1894-1895)	Room 75, Ruggery Building, Columbus, O., Employe Architect's Office.
Beard, Alexander Wilson	(1897-1898)	Youngstown, O., Beard Creamery Manager
Beard, Ralph H	(1895-1896)	Bucyrus, O., Farmer
Beardsley, Ensign Newton	(1895-1896)	R. F. D., Washingtonville, O., Farmer
Beattie, Emma Miles	(1896-1897)	Commit Road, Washington, D. C., O., Practical Domestic Science.
Beattie, Lena Leota	(1896-1897)	Selma, Ala., Missinoary and Teacher in Knox Academy.
Beattie, Rosalie Mae	(1898-1899)	Selma, Ala., Missionary and Teacher in Knox Academy.
Beattie, William Renwick, B. Sc. (Hort.).	1894	Washington, D. C., Assistant in Botany, Bureau of Plant Industry, U. S. Dept. of Agr.
Beatty, Madge	(1899-1901)	86 E. Eighth Ave., Columbus, O.,
Beem, Alda Morgan	(1895-1896)	Jersey, O., Farmer
Beer, James Anderson	(1895-1896)	Ashland, O., Student (Special Course), O. S. U.
Bell, Nelson Hugh	(1891-1892)	Fox P. O., O., Farmer
Beneker, Robert Edgar	(1899-1901)	Station "I," Cincinnati, O., Assistant Bookkeeper.
Benjamin, Ray	(1900-1901)	Pierpont, O., Farmer
Bently, William P., B. Agr	1885	(B. A., 1890; M. A., 1893, Betheny College); President Christian Institute, 15 Miller Road, Shanghai, China.
Betts, Adelbert Hayes	(1898-1899)	Kinsman, O., Cheesemaker
Bigger, Paul B	(1900-1901)	713 Adams St., Toledo, O., Employe of Mr. Hatcher, Pure Milk Dairy Co.
Biggin, O. L	(1900-1901)	Orangeville, O., Cheesemaker
Birdsall, James Warner	(1893-1896)	Green Spring, O., Farmer
Birney, Worthington H	(1892-1893)	Tappan, O., Stock Farmer
Blachley, Helen	(1898-1899)	Chicago, Ill., Student
Bloomfield, Lloyd M., B. Agr	1891	Paticea, Honduras, Central America, (via New Orleans and Truxillo), Superintendent of Agr. Colony of Valencia.
Boggs, Howard S	(1898-1900)	Kingston, O., Student College of Veterinary Medicine.
Bogue, Earnest E., B. Sc. (H. & F.)	1894	M. Sc., 1896, Columbus, O., Post-Graduate Student in Horticulture and Forestry.
Bone, John Hayes, B. Sc., 1893; B. Sc. (Agr.)	1896	Shadeland, Ind., Agricultural Writer and Farmer.
Bowsher, Harry Dittmar	(1896-1897)	Buckland, O., Stock Farmer
Bragg, Putnam Benjamin	(1897-1898)	Marietta, O., Dairy Employe of J. S. Devol
Brandt, James McPherson	(1893-1894)	510-511 Johnston Bldg., Cincinnati, O., Attorney at Law.
Bratton, Alice May	1901	1309 Neil Ave., Columbus, O.
Brechbill, B. H	(1895-1896)	Defiance, O., Buttermaker
Breckenridge, Wm. Kemper	(1898-1900)	Watertown, O., Student College of Veterinary Medicine.
Breese, C. N	(1897-1901)	Lithopolis, O., Creamery Operator, Lithopolis Elgin Butter Co.
Brinker, Thomas W	(1897-1899)	Chatham, O., Farmer
Britton, John Carr, B. Sc. (Agr.)	1898	Wooster, O., Assistant in Department of Nursery and Orchard Inspection.
Britton, William Miller	(18[illegible]-1898)	126 W. Lane Ave., Columbus, O., Engineer West Side Pumping Station.
Brown, Alma Marie	(1896-1897)	
Brown, I. Sumner	(1896-1897)	Bethel, O., Canvassing Agent and Student
Brown, Aaron S	(1892-1893)	Circleville, O., Stock Farmer
Brown, Alfred P	(1896-1897)	Dillon, Mont., Ranching and Cattle Raising
Bryson, Julia Leona	(1897-1898)	1292 Hunter St., Columbus, O.

Bundy, Lyman E.	(1898-1900)	Colerain, O., Fruit Growing and Gardening
Burkett, Chas. Wm., B. Sc. (Agr.)	1895	West Raleigh, N. C., Professor of Agriculture, N. C. College of Agriculture and Mechanic Arts.
Byers, Wm. G.	(1898-1900)	Lilly Chapel, O., Stock Farmer
Cahill, Verrill W.	(1899-1901)	Tiro, O., Farmer
Caldwell, Robert Smith	(1894-1895)	
Cameron, John H.	(1894-1895)	Salem, O., Dairy Farmer
Candy, Ella Belle	(1898-1900)	Columbus, O.
Canfield, C. H.	(1893-1894)	D. V. M., 1897, (Government Office, care of Kingan & Co.), Indianapolis, Ind., Inspector B. A. I. U. S., Dept. of Agr.
Carey, Nathan H.	(1899-1900)	Wilmington, O., Creamery Manager
Carl, Harry W.	(1898-1899)	Columbus, O., Employe Standard Milk Co.
Carril, Pedro Leon del	(1900-1901)	San Juan, Argentine Republic, S. A., Student College of Veterinary Medicine, O. S. U.
Case, Claude	(1900-1901)	Hudson, O., Dairy Farmer
Cass, Roscoe Faskin	(1896-1897)	Monclova, O., Dairy Farmer
Church, J. S.	(1898-1900)	Palmyra, O., Farmer
Churchman, Morris Harper	(1900-1901)	Station "A," Columbus, O., Student College of Veterinary Medicine, O. S. U.
Clark, Ollie D.	(1899-1901)	Wheat, O., Farmer
Clawson, Clarence A., B. Sc. (Agr.)	1899	D. V. M., 1900; 907 Penn St., Kansas City, Mo., Assistant Meat Inspector.
Clevenger, Chas.	(1898-1899)‡	Pletcher, O., Plasterer
Cline, Walter E.	(1893-1895)	R. F. D. No. 7, Wilmington, O., Farmer
Closson, Clayton D.	(1896-1897)	Mancopa County, Liscum, Arizona, Phoenix Gold Mining Co.
Coates, Elsie	(1898-1899)	Columbus, O.
Codding, Harry W.	(1900-1901)	Granger, O., Dairy Farmer
Coddington, Alva Leroy	(1894-1896)	Conover, O., Farmer
Coe, William D.	(1895-1896)	Washington C. H., O., Creamery Proprietor
Commons, Horace J.	(1900-1901)	Centerville, Ind., Chief Clerk, Wattles & Co., (Wholesale Granite).
Comstock, Allen L.	(1897-1899)	Harveysburg, O., Creamery Operator, French Bros. Dairy Co.
Condit, Lorenzo S.	(1894-1895)	Sunbury, O., Dairy Farmer
Conkle, Harry	(1896-1897)	Danville, O., Carpenter
Conradi, Albert F., B. Sc. (Agr.)	1901	Durham, N. H., Assistant Entomologist, New Hampshire State College.
Cotton, Edwin	(1897-1901)	Wooster, O., State Nursery and Orchard Inspector.
Cotton, George W.	(1899-1900)	Lorain, O., Retailing Milk
Covell, Jay Imman	(1896-1897)‡	Sandusky, O.
Craig, Moses, B. Sc.	1889	M. Sc., 1890, Cornell; M. Sc., (H. & F.), 1896, O. S. U., Gasport, Niagara Co., N. Y., Student in Horticulture, Michigan Agricultural College.
Cranz, Eugene Franz	(1892-1893)	Ira, O., Farmer
Crawford, Mary B., B. Sc. (D. Sc.)	1901	Blaine, O.
Creamer, Jesse C.	(1899-1901)	Jeffersonville, O.
Cromley, Alvah Miller	(1892-1895)	Circleville, O., Prescription Clerk
Crowner, Delbert Alonzo, B. Sc. (Agr.)	1896	West Jefferson, O., Proprietor Crowner Dairy Co.
Cunningham, John F., B. Sc. (H. & F.)	1897	Cleveland, O., Associate Editor, Ohio Farmer
Daniels, John Thomas	(1892-1894)	
Darling, Everett Clyde	(1894-1896)	Nellie, O., Stock Farmer
Darling, Mabel	(1900-1901)	Cardington, O.
Davenport, Chas. A.	(1892-1895)	Chillicothe, O., Freight Office B. & O. R. R.

Davis, Ella A.	(1898-1901)	Galena, O., Student Bliss' Business College, Columbus, O.
Davis, Vernon Hayes, B. Sc. (Agr.)	1900	M. S. A., Cornell, 1901, Columbus, O., Assistant in Horticulture, O. S. U.
Davis, Harriet Jane	(1899-1900)	
Davis, William W.	(1900-1901)	Newark, O., Creameryman
Decker, Melville Clarence	(1894-1895)	Findlay, O., Farmer
Dennington, Wilburt Stanley	(1898-1899)	Deckard, Pa., Dairy Farmer
Derby, Florence, B. Ph., 1896; B. Sc. (D. Sc.)	1901	161 W. Eleventh Ave., Columbus, O., Mrs. C. E. Haigler.
Devol, Wm. Stowe, B. Agr.	1886	San Bernardino Co., Redlands, Cal., City Editor Redlands Daily Facts.
Dille, Chas. Wallace	(1896-1897)	Cleveland, O., Attorney at Law
Dixon, Eva Nicholson	(1897-1898, 1899-1901)	
Dock, Norton	(1899-1901)	2357 Wheeler St., Cincinnati, O., Student College of Veterinary Medicine, O. S. U.
Dodds, Austin Everett	(1894-1895)	Tranquility, O., Stock Farmer
Dovel, Boyton	(1898-1899)	73 E. State St., Columbus, O., Clerk and Bookkeeper.
Dresback, Mary, B. Sc. (D. Sc.)	1901	Columbus, O.
Duncan, Donley	(1896-1897)	Ludlow, O., Farmer
Dunham, Alonzo H.	(1894-1896)	108 N. Ludlow St., Dayton, O., Assistant Physician State Hospital.
Dunlap, Arthur S.	(1900-1901)	Williamsport, O.
Dunlap, Frederick	(1899-1901)	411 Huestis St., Ithaca, N. Y., Student N. Y. State College of Forestry.
Dunlap, John Hyde	(1895-1896)	Williamsport, O., Farmer
Dunlap, Renick W., B. Sc. (Agr.)	1895	Kingston, O., Farmer
Durbin, Theodore	(1897-1898)‡	Danville, O., Cheesemaker
Durkee, Ray H.	(1896-1897)	R. D. No. 1, Grafton, O., Buttermaker
Duval, Harding H.	(1900-1901)	Wellsburg, W. Va.
Dwyer, H. E.	(1900-1901)	Harvey, N. Dak., School Teacher
Dyar, Harry Spencer	(1896-1897)	Marietta, O., Tool Dresser in Oil Fields
Egbert, Knott Crockett, B. Agr.	1890	Santee Agency, Neb., Superintendent Indian Boarding Schools.
Ensign, Ernest Henry	(1898-1899)	Willoughby, O., Creamery Foreman, Bell Vernon Farms' Dairy Co.
Ensminger, Harriet M.	(1900-1901)	Columbus, O.
Erf, Oscar, B. Sc. (Agr.)	1899	Champaign, Ill., Instructor in Dairy Husbandry, University of Illinois.
Erven, Orrin W.	(1900-1901)	Grand Rapids, O., Farm Manager
Evans, R. W.	(1894-1895)‡	Columbus, O.
Evans, Wm. B.	(1892-1894)	33-35 S. Fourth St., Newark O., Retail Lumber Dealers (W. T. Evans & Son).
Everett, S. J.	(1898-1899)	Parkman, O., Cheesemaker
Everett, Wm. Russell	(1899-1900)	Gratoit, O., Creamery Operator
Ewart, John W.	(1899-1900)	R. D. No. 1, E. Akron, O., Dairy Farmer
Falknor, E. A.	(1897-1898)‡	Troy, O, Yard Clerk
Farnsworth, Delmar J.	(1892-1893)	Waterville, O., Hardware Business, Agricultural Implements.
Fawcett, Arthur J.	(1893-1894)‡	405½ Exchange St., Akron, O., Agent Metropolitan Life Insurance Co.
Fearn, Nellie	(1897-1898)‡	Columbus, O.
Fenner, Frank C.	(1891-1892)	Plymouth, O., Farmer
Finley, Annetta	(1898-1900)	Worcester, Mass., Student Oread Institute
Finley, Thomas K.	(1897-1899)	Keene, O., Farmer
Fippin, E. O., B. Sc. (Agr.)	1900	Washington, D. C., Soil Expert, U. S. Soil Survey.
Fischer, Paul, B. Sc. (Agr.)	1891	D. V. M., 1892, 250 Marshall Ave., Columbus, O., Prof. Pathological Anatomy, O. S. U.

Fischer, Milo E	(1899-1901)	Chili, Ohio
Fischer, Walter	(1893-1896)	B. Sc., 1897, Columbus, O., Fellow in Botany, O. S. U.
Fisher, Elmer E	(1897-1898)	Lincoln, Neb., Student Lincoln Medical College
Fisher, Margaret Willimina	(1898-1899)	494 W. Sixth Ave., Columbus, O., Stenographer, S. H. Black & Co.
Fitts, Rollin	(1894-1899)	276 Orchard St., Marion, O., Machinist
Flickinger, Geo. A., B. Sc. (Agr.)	1898	R. F. D. No. 2, Knoxville, Tenn., Dairy Farmer.
Florence, George	(1891-1892)	Fox, O., Farmer
Flory, Chas. Henry	(1898-1900)	Arcanum, O., Student, O. S. U.
Forsythe, John B	(1895-1896)	Rushsylvania, O., Buttermaker
Foster, Fred May	(1894-1896)	Died, May 18, 1900, Kingston, O.
Foster, J. C	(1898-1901)	Higby, O.
Foster, Michael Lander	(1899-1900)	Florence, O., Swiss and Cheddar Cheesemaker.
Fox, Louis H	(1900-1901)	Garland, O., Farmer
Fox, Chas. B., Agr	(1890-1892)	M. Agr
Frame, Mabel F	(1900-1901)	Washington, O., Student in Art
Frazier, S. H	(1898-1899)	Frazeysburg, O., Stock Farmer
Frink, Clarence B	(1900-1901)	Fort Lupton, Col.
Galehouse, David William	(1896-1901)	Bureau of Plant Industry, Washington, D. C.
Garity, Benjamin Joseph	(1896-1897)	Mt. Vernon, O., Creameryman
Garner, Clarence Harris	(1897-1898)	New Concord, O., Farmer
Gault, Thomas C	(1900-1901)	Fernwood, O., Dairy Farmer
Gearing, B. L	((1897-1898)	Sultana, Colo., Contractor and Mucker. Cre., Sorter.
Geckler, Chas. F	(1891-1894)	104 Mechanic St., Cleveland, O., Traveling Salesman.
George, H. J	(1900-1901)	Beaver Falls, Pa.
Gephart, Geo. Washington	(1894-1895)	Miamisburg, O., Miller and Farmer
Gerdeman, John F	(1900-1901)	Ottawa, O., Stock Farmer
Getz, F. L	(1893-1894)	Grove City, O., Gardener
Gibson, Herbert R	(1896-1897, 1898-1899)	Cedarville, O., Proprietor Gibson & Postle Cheese Factory.
Gilmore, Walter Hayes	(1896-1897)	Baltimore, O., Farmer
Gilmore, William Henry, B. Sc., Agr.	1899	Basil, O., Stock Farmer
Givens, Warren Wheeler	(1897-1898)	DeKalb, Ill., Farmer
Givens, David Albert	(1895-1897)	
Givens, Warren Hayes	(1897-1898)	Springfield, Il., Dairy Farmer
Gladding, M. M	(1897-1900)	Windsor, O., Dairy Farmer
Glathart, Harry Aaron	(1891-1892)	Findlay, O., Civil Engineer and Surgeon
Goddard, Harford Bishop	(1896-1897)	Dunham, O., Stock Farmer
Goodwin, Clare T	(1896-1897)	Columbia Station, O., Dairy Farmer
Gove, Chas. Frederick	(1897-1898)	Oregonia, O., Dairyman, Employe French Bros.' Dairy Co.
Graber, Christian	(1899-1900)	Burton, O., Cheese and Buttermaker
Graham, John Edward	(1893-1894)	Raccoon Island, O., Fruit Grower and Farmer.
Grant, A. M	(1892-1893)	
Graw, Maud Elizabeth	(1900-1901)	Lucas, O., Teacher Domestic Science, Carthage College, Carthage, Ill.
Greenlee, James Ross	(1898-1899)	Lansing, O., Farmer
Greenlee, Edward Hood	(1896-1897)	Died, Bridgeport. O., 1898
Gregory, Wm. Moody	(1897-1898)	Elizabeth City, N. C., Dairy Farmer
Griffith, W. I	(1898-1899)	Galena, O., Farmer
Grimes, Chas. Wilson	(1897-1898)	Springboro, O., Creamery Operator, French Bros.' Dairy Co.
Grisier, Darcy B	(1894-1895)‡	Fayette, O., Groceryman

Glock, Edward Hoover	(1896-1897)	
Guy, Wm. Earl	(1900-1901)	R. R. No. 3, Mechanicsburg, O., Foreman Glendale Stock Farmer.
Haines, Edna Esther	(1897-1898)‡	Bloomingburg, O.
Hamilton, William C	(1892-1894)	Gratiot, O., Farmer
Hanna, Chas	(1899-1901)	R. R. No. 3, Shelby, O., Farmer
Hanna, Hortie L	(1900-1901)	Garrottsville, O.
Hard, Jesse M	(1898-1900)	Elmwood, O., Farmer
Harn, Geo. Upton, Jr	(1898-1899)	194 Wilson Ave., Columbus, O., Clerk U. S. Weather Bureau.
Harper, Merritt, B. Sc. (Agr.)	1901	1007 Springfield St., Urbana, Ill., Post-Graduate Student, University of Illinois.
Harris, Melvin Jay	(1897-1898)	Garrettsville, O., Farmer
Harry, Willis Grant	(1896-1897)	90 Warren St., New York, N. Y., Employe Universal Food Co.
Harter, John Hoyt	(1892-1894)	R. F. D., Delaware, O., Farmer
Hathaway, Ralph	(1900-1901)	Scipio Siding, O., Farmer
Hawley, Wilbur	(1896-1897)	Pataskala, O., Dairyman
Hayden, Cassius Clay, B. Sc. (Agr.)	1901	Fort Wayne, Ind., Operator Sanitary Milk Plant.
Heath, Harry Roger	(1898-1899)	30 S. Canal St., Chicago, Ill., Expert on Creamery Machinery, Sharples Co.
Heller, John	(1899-1900)	Ona, W. Va., Farmer
Henderson, Frank A	(1894-1897)	Died, McConnelsville, O., September 27, 1898
Herrick, Hobert C	(1899-1901)	Wellington, O., Farmer
Hershey, B. W	(1897-1899)	Easton, O., Stock Farmer
Hess, Flora Louise	(1898-1901)	Station "B," Columbus, O.
Hill, George B	(1900-1901)	Piqua, O., Farmer
Hill, Walter Centennial	(1894-1895)	Berlin Heights, O., Student Western Reserve Medical College, Cleveland, O.
Hill, I. F. Reynolds, B. Sc. (H. & F.)	1896	Washington, D. C., Student Assistant, Division of Forestry.
Hiltner, Philip	(1894-1895)	Landeck, O., Farmer
Hine, James Stewart, B. Sc. (H. & F.)	1893	Columbus, O., Assistant Professor in Entomology, O. S. U.
Hoff, Walter A	(1894-1897)	
Holderman, George Leland	(1891-1892)‡	Kingston, O., Farmer
Holmes, Ernest	(1898-1899)	Loudonville, O., Buttermaker, E. W. Miles
Holt, David C	(1899-1900)	Galloway, O., Agent Alpha Separator
Hood, Sherman, B. Sc. (H. & F.)	1894	Meander, O., Market Gardener
Hoover, Louis C	(1898-1899)	Peninsula, O., Student Union Biblical Institute.
Hoover, Edna	(1899-1901)	Columbus, O.
Horst, David H	(1897-1898)	Dalton, O., Fruit Grower and Farmer
Hosmer, V	(1900-1901)	Parkman, O.
Houston, Morris	(1897-1898)	Mechanicsburg, O., Farmer
Hoyt, Corydon Albert	(1891-1892)‡	Rock Creek, O., Farmer
Hudson, James F	(1900-1901)	Wayland, O., Dairy Operator
Huff, Haines	(1894-1896)	4310 Beech Hill Ave., Cincinnati, O., Mail Clerk B. & O. and O. S. W. R. R.
Hugenholtz, Paul	(1897-1898)	
Hulbert, H. C	(1896-1897)	R. R. No. 2, Seville, O., Dairy Farmer
Hunt, Claude P	(1900-1901)	Bennetts Corner, O., Farmer
Hunt, Mary	(1897-1898)	Died, Legal, Ill., 1898
Hunter, William Forest, Jr	(1892-1893)	Station C., Columbus, O., Farmer
Hynes, Clifton E	(1900-1901)	Basil, O., Buttermaker
Imes, Marion, B. Sc. (Agr.)	1899 ‡	D. V. M., 1900, Chicago, Ill., Meat Inspector, (U. S. Government Office).
Immell, Woodford Elias	(1898-1899)	Chillicothe, O., Farmer
Innis, Byron S	(1899-1901)	Wagram, O., Stock Farmer

Irwin, Arthur	(1899-1901)	Parkman, O., Farm Employe
Irwin, James	(1898-1899)	Richmond, O., Farmer
Jackson, Walter Chas	(1898-1899)	South Kortright, N. Y., Buttermaker
James, Harold Francis	(1899-1900)	130 Bowdoin St., Winthrop, Mass.
Janton, Alexander	(1896-1897)‡	Columbus, O.
Johnson, Homer E	(1900-1901)	East Orwell, O., Buttermaker and Manager, Milk Depot, 2234 Euclil Ave., Cleveland, O.
Johnson, Lisle M	(1895-1896)	Tiger, O., Farmer
Johnston, Frederick S., B. Sc., (Agr.)	1899	Lafayette, Ind., Associate Professor of Agriculture, Purdue University.
Jones, Hosea Henderson	(1893-1894)‡	Radnor, O., Farmer
Jones, J. Lewis	(1898-1899)	Penfield, O., Farmer
Joyce, Mary Gertrude	(1897-1898)‡	78 Smith Place, Columbus, O.
Karnes, John Miller	(1894-1895)	New Petersburg, O., Farmer
Kaylor, Rollie Washington	(1899-1900)	Bellefontaine, O., Cheese and Buttermaker
Kelley, Galeria May Belle	(1898-1899)	Columbus, O., Student Capitol School of Oratory.
Kelley, Wm. L	(1897-1900)	Box 11, Newark, O., Farmer and Dairyman
Kellough, Jesse P	(1894-1895)	Washington C. H., O., Stock Farmer
Kent, Mary	(1898-1899)	
Kerr, Franklin H	(1892-1893, 1895-1896)	Elreno, Okla., Farmer
Kiddle, F. W	(1895-1896)	West Williamsfield, O., Farmer
King, Michael A	(1900-1901)	Scott, O., Merchant
King, J. C	(1898-1899)	Box 360, Fremont, O., U. S. Express Co.
King, John Henry	(1895-1896)	Raccoon Island, O., Farmer
Kinney, Chas. C	(1899-1900)	Yellow Springs, O., Farmer
Kirk, Edward Cassius	(1898-1899)	Adario, O., Farmer
Klein, Edith May	(1899-1901)	Columbus, O.
Kockers, Peter J	(1893-1894)	
Kohls, Frank Joseph	(1892-1893)	Ottawa, O., Manager Leopold Hotel
Kolbe, Lawrence Albert	(1897-1899)	North Amherst, O., Farmer
Kuenzli, James Arthur	(1893-1894)	Upper Sandusky, O., Farmer
Kynett, Albert Gardner	(1899-1900)	
Ladrack, Lewis F‡	(1898-1899)	Brighton, O., Cheesemaker
Ladrach, John J	(1899-1900)	Birmingham, O., Farmer
Lakin, Arthur	(1896-1897)	Station "A," Columbus, O., Locomotive Fireman, P., C., C. & St. L. R. R.
Langdon, Elmer	(1899-1901)	Sabina, O., Student College of Veterinary Medicine, O. S. U.
La Rue, Almon	(1891-1892)‡	Convoy, O.
Laughlin, Joseph Gibson	(1893-1894)	Delaware, O., Student Ohio Wesleyan University.
Lawrence, Mortimer Wm	(1891-1894)	Cleveland, O., Vice-President Lawrence Publishing Co., Treasurer Lawrence-Williams Co.
Lee, Vernon W	(1892-1893)	New Plymouth, O., Stock Farmer
Leonard, W. Elmer	(1891-1895)	Athens, O., Chief Clerk Hudson School Furniture Co.
Leyda, Manton Odell	(1894-1895)	Pattersonville, O., Dairy Farmer
Liles, Frederick Wm	(1897-1899)	Collins, O., Stock Farmer
Linberg, Chas. G	(1900-1901)	Corner Fifth and Cherry Sts., Erie, Pa., Dairyman and Ice Cream Manufacturer.
Lindley, Lulu	(1899-1901)	Boston, Mass., Demonstrater Knox Gelatin Co.
Linsley, Frank P	(1899-1900)	Gallipolis, O., Fruit Grower and Farmer
Long, Frederick Pontius	(1897-1899)	Kingston, O., Farmer
Loomis, Humbert H	(1891-1894, 1896-1899)‡	Deerfield, O., Farmer
Lutz, Ray	(1893-1895)	Tremont, O., Farmer

McAlister, Lee Paden........(1899-1901)..518 Franklin Ave., Columbus, O., Stenographer, Bliss Business College.
McCall, A. G., B. Sc. (Agr.)........ 1900 ..Washington, D. C., Laboratory Assistant, Bureau of Soils.
McCallum, Raymond, B. Ph., 1900...(1900-1901)........ Dayton, O.
McClellan Arthur........(1897-1899)........Cable, O., Cheesemaker
McClelland, Chalmer Kirk, B. Sc. (Agr.). 1898 ...Ithaca, N. Y., Post-Graduate Student, Cornell University.
McClure, W. W........(1898-1899)..R. R. No. 3, Union City, Ind., Stock Farmer
McCormick, Earl Leander........(1896-1897)........Gallipolis, O., Merchant
McCullough, Clark W........(1895-1897)........R. D. No. 1, Steubenville, O., Farmer
McCullough, Wm. Cleland........(1892-1893)........Bucyrus, O., Lawyer
McDaniels, Fred Kimball........(1896-1897)..Estacion de Catorse, Mexico, (care M. Elsasser & Co., 13 San Juan de Letrau, Mexico), Supt. Hacienda de Beneficio of Antimony and Antimony Mines at Catorce.
McFarlane, Ellis........(1897-1898).......New Bedford, Pa., Gardener and Farmer
McHenry, J. B........(1895-1896).......Vineyard Hill, O., Student in Pharmacy
McKay, Weldon Nickerson........(1897-1899)........New Burlington, O., Farmer
McKinley, Ira Esdras........(1899-1900)........Vaughnsville, O., Student
McLaughlin, Grace........(1900-1901)........ Columbus, O.
McLaughlin, Harrold........(1898-1899)‡........Smith Place, Columbus, O.
McLaughlin, Henry........(1893-1894)‡........ Thornville, O.
McMannis, A. T........(1893-1894)‡..1341 Dorr St., Toledo, O., Salesman and Market Gardener.
McMillan, Fred D........(1900-1901)........ Granger, O.
McNaughten, Stewart Alexander.....(1895-1896)........Reynoldsburg, O., Farmer
McEwen, James, Jr........(1893-1894, 1896-1899)........Black Lick, O., Farmer
McOwen, Thomas........(1897-1899).......Ovid, O., Student Arts College, O. S. U.
Mackey, James Earl........(1897-1898)........Richfield, O., Farmer
Mallow, H. C........(1900-1901)..Washington C. H., O., Student College of Veterinary Medicine, O. S. U.
Mangold, E. Frank........(1900-1901)........Sonora, O., Farm Manager
Manville, Herbert Emery........(1896-1897)........Pharisburg, O., Farmer
Marion, Walter J........(1897-1899)..141 E. Duncan St., Columbus, O., Employe Columbus Merchandise Co.
Martin, John B........(1891-1892)........Windfall, O., Dairy Farmer
Mason, Arthur D........(1897-1899)........Wellington, O., Farmer
Mayers, M. L........(1898-1899)........
Mays, James Wesley........(1893-1894)..217 S. Broadway, Los Angeles, Cal., Attorney at Law.
Meacham, Van Floran........(1891-1892)........Atwater, O., Farmer
Mears, W. H........(1899-1901)........Moscow, O., Farmer
Meek, Eunice........(1898-1900)........ Afton, O.
Meiche, Louis........(1898-1900)..Cleveland, O., Student College of Veterinary Medicine, O. S. U.
Melken, Otis E........(1900-1901)........Streetsboro, O., Cheesemaker
Mendenhall, John L........(1894-1895)........Westland, O., Stock Farmer
Mendenhall, Eugene Warren........(1893-1896)......Eugene, O., Attorney at Law and Farmer
Mercer, Worley Deforest........(1891-1892)‡........Duncan's Falls, O., Physician
Mergler, Jacob C........(1898-1899)........Marietta, O., Student Marietta College
Merwine, Edson A........(1896-1897)........Bellville, O., Dairy Farmer
Mesloh, Harry Smith........(1899-1900)........New Bremen, O., Farmer
Metcalf, Walter Chas........(1898-1899).......42 Granger St., Cleveland, O., Draftsman
Millar, Michael Seymour........(1895-1896)........South Bloomfield, O.
Miller, Carl James, B. Sc. (Agr.)........ 1898 ....Franklin, O., Stock Farmer
Miller, Ed........(1900-1901)........Springerton, Ill., Cheesemaker
Miller, Merritt Finley, B. Sc. (Agr.)..... 1900 ..M. S. A., 1901, Cornell, Columbus, O., Instructor in Agronomy, O. S. U.
Miller, Henry Alexander........(1898-1899)........Gypsum, O., Horticulturist

Miller, Maynard Everett	(1899-1900)	Dodgeville, O., Dairyman and Creamery Operator.
Miller, Morris B	(1900-1901)	Springboro, O., Creamery Operator
Milliman, Prescott	(1893-1895)	Milan, O., Farmer
Mills, W. C	(1897-1898)	Columbus, O., Curator Archæological Museum, O. S. U.
Miner, Chas. A	(1898-1900)	Bristolville, O., Farmer
Minnich, F. J	(1897-1898)	2220 Apple St., Lorain, O., Buttermaker
Minnich, Otto Wm	(1897-1898)	Marshall Route, Zanesville, O., Dairy Farmer
Mooney, Chas. Napoleon, B. Sc. (Agr.)	1900	Washington, D. C., Soil Expert, U. S. Soil Survey.
Moorehead, Robert Henderson	(1896-1897)‡	Zanesville, O.
Montgomery, Frank	(1898-1899)‡	Columbus, O.
Morley, Ida Mae	(1896-1897)	
Morrow, John W	(1893-1894)	Died, Bogart, O., October, 1898
Morrow, Clarence G	(1895-1896)	Second Ave., Pittsburg, Pa., Homeopathio Hospital Laborer.
Mowry, Edward Philip	(1896-1897)	Monroeville, O., Manager Star Creamery
Mull, Ernest Clinton	(1898-1899)	Lebanon, O., Student Arts College, O. S. U.
Murphy, Farrah C	(1894-1896)	Sunbury, O., Dairy Farmer
Murray, Edna Earl	(1898-1900)	
Murray, J. B	(1898-1899)	Penfield, O., Cheese and Buttermaker
Naret, Wm. F	(1900-1901)	Morgantown, W. Va.
Neale, Alvin S	(1891-1892)	Rock, O., Dairy Farmer
Neill, Nelson P., B. Sc. (Agr.)	1901	Washington, D. C., Field Assistant, U. S. Soil Survey.
Nelson, Fred W	(1899-1901)	Salem Center, O., Sheep Breeder and Farmer
Nelson, Fred B	(1899-1900)	North Olmsted, O., Student College of Engineering, O. S. U.
Neptune, Orries Bird	(1900-1901)	Loudonville, O., Creamery Operator
Nettleton, Albert Warren, B. Sc. (Agr.)	1898	Medina, O., Stock and Grain Farmer
Nettleton, Edward	(1900-1901)	Medina, O., Farmer
Newcomb, Howard Robinson	(1900-1901)	Burton, O., Dairy Farmer
Newton, Sheldon Watrous	(1896-1899)	Boardman, O., Farmer
Nichelson, Chas	(1892-1893)	Plattsburg, O., Stock Farmer
Nidy, A. V	(1896-1897)	Shelbyville, Ky., Student Morse School of Telegraphy.
Noice, Blaine G	(1900-1901)	124 Avondale Ave., Columbus, O., Blacksmith
Notman, Walter	(1894-1895)	Deerfield, O., Dairyman
Ohlemacher, John Jacob	(1897-1898)	Prout's Station, O., Motorman
Oliver, Chas. R	(1899-1900)	Portersville, Pa., Creamery Operator
Orton, Louise Taft	(1899-1900)	Columbus, O., Mrs. Caldwell
Osborn, Harry L	(1899-1901)	Chardon, O., Student
Osborn, Alice	(1898-1900)	Cadiz, O., School Teacher
Owens, Walter Raleigh	(1897-1898)	
Paddock, Benjamin	(1900-1901)	Hartwell, O., Dairyman
Palmer, Mary Ella	(1897-1898)	Kansas City, Mo.
Palmer, R. Jay	(1897-1899)	Penfield, O., Farmer
Parks, Wm. C	(1896-1897)	Hopedale, O., Salesman Hot Air Furnaces
Parrett, Nyes Marvin	(1892-1893)‡	Madison Mills, O., Farmer
Parsons, John Strong	(1896-1899)	Rootstown, O., Farmer
Partridge, B. M	(1897-1898)	Flint, O., Student Arts College, O. S. U.
Patterson, Andrew Wylie	(1900-1901)	New Concord, O., Dairy Farmer
Patterson, Mrs. George T	(1897-1898)	
Patterson, Wm. Adolphus	(1894-1895)	Died, Kensington, O., July 12, 1898
Patton, Robert L	(1894-1895)	
Pemberton, Harvey Cannon	(1894-1895)	
Pennybacker, Marion Stone	(1891-1892)	Purcell, Indian Territory, Traveling Salesman
Perry, John Cole, B. Sc. (Agr.)	1901	Columbia Station, O., Farmer

Perry, Edma Brooks, B. Ph. and B. Sc. (D. Sc.)	1901	Columbus, O., Fellow in Botany, O. S. U.
Persing, Matthias James	(1894-1896)	Clyde, O., Fruit and Poultry Keeper
Pessell, J. B	(1900-1901)	768 Scranton Ave., Cleveland, O., Buttermaker Cottage Creamery.
Peters, Francis	(1899-1900)	27 N. Ohio Ave., Columbus, O.
Pfarr, Philip L., Jr., B. Sc. (Agr.)	1896 ‡	Columbus, O., Dairyman
Phillips, Josiah M	(1891-1893)	Ayersville, O., Teacher, and Agent Life Insurance Co.
Phillip, John Howard	(1898-1899)	Died, Centerburg, O., Fall of 1898
Phillips, John C	(1896-1898)	Bath, O., Cheesemaker
Phinney, Chas. Amos	(1892-1893)	
Pierce, Benjamin M	(1897-1899)	
Plumb, C. S., B. Sc. (Agr.)	(1895-1896)	Lafayette, Ind., Professor of Agriculture, Purdue University.
Pollock, Chas. Hamilton	(1897-1898)	Mill Village, Pa., Dairy Farmer
Portman, H. R	(1900-1901)	R. F. D. No. 1, North Amherst, O., Swiss Cheesemaker.
Postle, Carlton David	(1898-1899)	Alton, O., School Teacher
Postle, Forence	(1897-1899)	Washington, D. C., Mrs. E. O. Fippin
Postle, Stuart A	(1896-1899)	Cedarville, O., Proprietor Gibson & Postle Cheese Factory.
Powell, Ernest	(1891-1892)	R. R. No. 8, Van Wert, O., Farmer
Pratt, Jean Paul	(1900-1901)	175 W. Tenth Ave., Columbus, O., Student, Course in Modern Language, O. S. U.
Price, Homer C., B. Sc. (Agr.)	1897	M. Sc., Cornell, 1899; Ames, Ia., Professor of Horticulture, Iowa State College.
Price, Wm. R	(1896-1897)	Died, Mineral Ridge, O., April, 1899
Priest, Frederick	(1892-1893)	No. 58 S. Fifth St., Newark, O., Veterinary Surgeon.
Pugh, Stanley D	(1891-1892)	501 Spahr Bldg., Columbus, O., Assistant Engineer, C., S. & H. R. R.
Randolph, Frank Monroe	(1894-1896)	R. R. No. 1, New Lexington, O., Teacher and Farmer.
Rane, Frank Wm., B. Agr	1891	M. Sc., Cornell, 1892; Durham, N. H., Professor of Horticulture, New Hampshire State College.
Rarick, Murray M., B. Sc., Agr	1896	Jacksontown, O., Physician
Ream, Earl S	(1897-1898)	Box 214, Phoenix, Ariz., Ranch Manager
Reece, Chas. Elwood	(1893-1894)	Bucyrus, O., Stock Farmer
Reed, Oscar W	(1894-1895)	Lebanon, O., Buttermaker
Reed, Jasper Robert	(1896-1897)‡	Blanchester, O., Dairyman
Reno, Mell Lewis	(1898-1899)	Clark, Pa., Farmer
Reppert, Alda	(1898-1899)‡	Columbus, O.
Rexroth, Royal A	(1898-1899)	Bucyrus, O., Stock Farmer
Reyes, Julio	(1900-1901)	Berkeley, Cal., Student University of California.
Rice, Mabel Elise, B. A., 1898	(1898-1899)	The Phoenix, Cleveland, O., Mrs. Wm. E. Minshall.
Richards, Don Arthur	(1899-1900)	R. F. D. No. 2, Medina, O., Buttermaker
Richardson, Hamilton Hutchinson, B. Agr.,	1892	South Brooklyn, O., Market Gardener
Ridinger, John G	(1897-1899)	Killed, Kalida, O., June, 1899
Ridings, Jesse Owen	(1893-1894)	Goshen, O., Teacher and Farmer
Riggs, Earnest J., B. Sc. (H. & F.)	1895	M. Sc., 1896, Cornell; Raccoon Island, O., Fruit Grower and Farmer.
Riley, Valeria	(1896-1900)	Washington C. H., O., Employe Fayette Nursery.
Roadarmer, Harry	(1897-1898)	3156 Stout St., Denver, Col., Salesman Dairy Supplies.

Robb, Wyman Speer..................(1897-1898)..1331 Federal St., Allegheny, Pa., Grocery Clerk.
Roberts, John L............(1894-1896, 1897-1899)..Wanakah, N. Y., Manager Stock and Dairy Farm.
Rodegeb, Chas. A....................(1895-1896)‡....................Roslyn, Ill., Dairy Farmer
Rogers, Dwight Eugene..............(1895-1896)..Grafton, O., Railroad Clerk, Grafton, Cleveland, Lorain and Wheeling Depot.
Rogers, John Wesley.................(1895-1896)..............Bloomingburg, O., Manufacturer
Rogers, Truman ....(1900-1901)... Cardington, O.
Rood, Venious Ardie.................(1893-1895)...............................Larue, O., Farmer
Roscoe, Frank B.......................(1893-1895)..........................Greenwich, O., Farmer
Ross, John L...........................(1900-1901)..North Eaton, O., Manager and Buttermaker Deerfield Creamery Co.
Ross, Amos Loren....................(1897-1898)..City of Romblon, P. I., Soldier and Teacher in Government Schools.
Ruhl, George P........................(1900-1901...........Alexandria, O., Creamery Operator
Ruhlen, Frank, B. Sc. (Agr.)............ 1896 ..Columbus, O., Instructor in Zootechny, O. S. U.
Rutan, Benjamin Milton..............(1893-1895)............Marysville, O., Creamery Operator
Rutan, David ....(1897-1898; 1900-1901)...........Springvalley, O., Creamery Operator
Rutan, Hiram E.........................(1900-1901)...........Springvalley, O., Creamery Operator
Rutan, Maida ....(1894-1895)..............Mechanicsburg, O., Mrs. Bullard
Sanders, Boston C....................(1897-1898)..Steubenville, O., Farmer and Agent U. S. Mnfg. Co., Household Supplies.
Saum, John Lincoln...................(1891-1892)......................... Antwerp, O., Farmer
Sayre, Eliza Morgan.................(1898-1899)‡..716 Neil Ave., Columbus, Mrs. Norris, Musician.
Schaadt, Martin ....(1894-1895)........Blue Mound, Kan., Creamery Manager
Schaeffer, F. W.........................(1896-1900)..Columbus, O., Proprietor Standard Milk Co.
Schroeder, Glen Thomas..............(1895-1896)....Washington, Ind., Machinist B. & O. R. R.
Schwendeman, Frank J...............(1900-1901).......................Lowell, O., Buttermaker
Scott, Edith ....(1899-1900)...............................Mt. Pleasant, O.
Scott, Earnest, B. Sc. (Agr.).............. 1897 ..131 Fifteenth Avve., Columbus, O., Assistant Physician Columbus State Hospital.
Scott, Howard T.......................(1896-1897).........................Fair Haven, O., Farmer
Scroggie, James Hugh................(1894-1895)..........224 N. Prof. St., Oberlin, O., Student
Senter, Pearl ....(1898-1901)....................................... Shepard, O.
Shaffer, Jesse ....(1899-1900)............Black Lick, O., Creamery Operator
Sharp, Prentice D......................(1900-1901)........................East Liberty, O., Farmer
Sharp, Edmond Maxwell..............(1896-1897).......1321 S. Main St., Akron, O., Bookkeeper
Shaw, James C.........................(1892-1894)....................Newark, O., Stock Farmer
Shaw, F. L..............................(1893-1894)..
Sheldon, Helen Griswold.............(1898-1901)..34 Ste. Anne St., Quebec, Can., "Academie St. Louis du Bon-Pasteur."
Shellabarger, Marley R., B. Ss. (Agr.)... 1897 ....Garland, O., Farmer
Shellabarger, Ira G...................(1900-1901)..........................Garland, O., Farmer
Shepard, Allen Day...................(1899-1900)...............N. Ridgeville, O., Creameryman
Shippee, Henry George..............(1898-1899)..
Shriver, Sarah Luella.................(1896-1897)..........Trinity, Ky., Teacher, Mrs. Waldren
Shumaker, Bertram ....(1896-1897).............................Leroy, O., Farmer
Siler, Leonard E.......................(1900-1901)..................Mt. Vernon, O., Buttermaker
Skiles, Blanchet Gertrude............(1898-1900)....................................... Shelby, O.
Slater, Burr H..........................(1892-1893)....................Chesterville, O., Druggist
Smith, Elisha ....(1897-1898).........Richville, O., Butter and Cheesemaker
Smith, Wilfred B.......................(1899-1901).........................Chesterhill, O., Farmer
Smith, Wm. David.....................(1897-1898)..
Snyder, Addison Hogan, B. Sc. (Agr.).... 1901 ..Washington, D. C., Scientific Aid, Bureau of Plant Industry.
Solether, C. F.........................(1898-1899)..Jerry City, O., Assistant Cashier Cygnet Savings Bank.

Spencer, Silas McLaren..............(1897-1898)..Chrome Hill, Md., Creameryman and Ice Cream Manufacturer.
Spiers, Chas. E........................(1892-1895)......................Atwater, O., Stock Farmer
Spohn, Louis Narcissus..............(1900-1901)................Easton, O., Creamery Operator
Stahl, P. E.............................(1900-1901)......................Jewett, O., Stock Farmer
Steward, Alice Ione..................(1900-1901)..............39 W. Tenth Ave., Columbus, O.
Steward, Chas. Benjamin, B. Sc. (Agr.).. 1900 ....Canal Winchester, O., Stock Farmer
Stiers, V. T.........................(1899-1900)‡.................................... Zaleski, O.
Stimmel, John Russell, Jr...........(1896-1897)...........R. R. No. 3, Columbus, O., Farmer
Stoughton, Chas. Peters.............(1897-1898)....Wales Center, N. Y., Gardener and Farmer
Stump, Franklin Pierce..............(1891-1892)...........................Convoy, O., Farmer
Stump, Mrs. Franklin Pierce.........(1893-1894).................................... Convoy, O.
Sweet, Smith E.......................(1894-1896).............R. F. D., Middlefield, O., Farmer
Tarpning, Clifton C..................(1900-1901).............Wayland, O., Creamery Operator
Taylor, Merrill S......................(1892-1894)..........................Urbana, O., Farmer
Taylor, Everett Burnee..............(1897-1898).............Westervville, O., Student in Law
Taylor, Frederic Wellington, B. Sc. (Agr.) ..... 1900 ..Washington, D. C., Field Assistant, U. S. Soil Survey.
Thomas, Elmer Ellsworth............(1899-1900)..............R. R. No. 2, Newark, O., Farmer
Thompson, Benjamin Sells..........(1898-1899)..22 S. Main St., Manseld, O., Hardware Salesman.
Thompson, Edith Leontine..........(1898-1899)...................................... Huron, O.
Thompson, Frank McColgin.........(1896-1898)‡.............................. Georgetown, O.
Thompson, Jay ....(1896-1897)‡..Iloilo Panay, P. I., Clerk for Chief Surgeon, U. S. Army.
Thompson, Jesse Eugene............(1899-1900)‡................................ Bristolville, O.
Thompson, Joseph J..................(1894-1895)..142 W. Fourth St., Lebanon, O., Piano Tuner
Thornburg, C. E.......................(1897-1898)..Cloud Chief, Washita County, Okla., Corn and Cotton Grower.
Thorne, Bertram H...................(1891-1892).............Wooster, Ohio, Vegetable Grower
Titus, Clarence H.....................(1894-1896)....................Beach Park, O., Merchant
Townsend, Melville W...............(1900-1901)...........Martinsville, O., Implement Dealer
Trowbridge, Warren Wesley.........(1898-1900)........................Painesville, O., Farmer
Tyler, Fred J., B. Sc. (H. & F.).......... 1900 ..Columbus, O., Assistant in Botany, O. S. U.
Uncapher, Wm. H....................(1895-1897)..........................Marion, O., Farmer
Uncapher, J. D........................(1897-1899)..........................Marion, O., Farmer
Vandament, Orin ....(1898-1899).........Hamersville, O., Teacher and Farmer
Van Norman, Hubert E..............(1900-1901)..Lafayette, Ind., Asst. Prof. of Dairying, Purdue University.
Vermillion, Arthur H.................(1894-1895)..Quinesec, Livingston County, Mich., Employee Iron Mines.
Vickery, John B......................(1898-1899)........ ....
Vine, Oliver Jacob....................(1894-1895)............Lemoore, Cal., Creamery Operator
Wagner, W. Dow......................(1892-1893).................Summit St., Kenton, O., Clerk
Waid, Clarence Wm., B. Sc. (H. & F.)... 1898 ..Wooster, O., Assistant in Horticulture, Experiment Station.
Waite, Arthur Thompson............(1900-1901).....................N. Ridgeville, O., Farmer
Walker, Wallace J....................(1892-1893)..Died of Fever, Spanish-American War, at Puerto Rico, January 22, 1900, (Emerson, O.)
Wampler, Eugene ....(1899-1901)........R. R. No. 1, Dayton, O., Stock Farmer
Ward, Harry Wm.....................(1898-1899)..975 Oak St., Columbus, O., Stenographer W. M. Ritter Lumber Co.
Ward, Benjamin Nelson.............(1891-1892).............Died, 1898, (Soldier), De Graff, O.
Ward, Philip Emerson................(1893-1895)..Willoughby, O., Superintendent of Kirtland Schools.
Warden, Leonard C., B. Sc. (H. & F.)...(1899)....................Beach Park, O., Merchant
Watkins, Salem F.....................(1900-1901)......................Granger, O., Dairyman
Weinman, George Henry.............(1891-1892)............ ....
Weisman, Laura Anna, B. Sc. (D. Sc.)... 1900 ..West Raleigh, N. C., Mrs. Chas. W. Burkett

Welch, Fred C.	(1900-1901)	Corner Baker and Fairfield Ave., Ft. Wayne, Ind., Buttermaker.
Wells, James Russell	(1891-1892, 1894-1895)	Josiah, W. Va., Dairyman
Wentz, John I.	(1900-1901)	Bucyrus, O., Farmer
West, James Clyde	(1900-1901)	St. Paris, O.
West, Richard Sedgwick	(1892-1893)‡	Rix Mills, O.
Westwater, W. G.	(1893-1895)	Mt. Vernon, O., Draughtsman
Whiley, Thomas Boyce	(1896-1897)	Lancaster, O., Stock Farmer
Whipple, Chas. Mantamon	(1897-1898)	
White, J. Maurice	(1894-1895)	Rix's Mills, O., Stock Farmer
White, Oscar	(1900-1901)	Payne, O., Farmer
White, Jessie May	(1900-1901)	Reynoldsburg, O.
Whitehead, Albert	(1895-1896, 1900-1901)	Lexington, Ky.
Whitehead, Henry H.	(1895-1897)	Jersey, O., Operator Jersey Skimming Station.
Whiting, Chas. Tryon	(1894-1896)	Kirtland, O., Farmer
Whiting, Roy E.	(1897-1898)	Austinburg, O., Farmer
Whitman, Chas. Henry	(1898-1899)	Doylestown, O., Packer at Salt Works
Whitney, Chas. Albert	(1895-1896)	Philippine Islands
Wilkin, W. W.	(1897-1898)	Farmersville, O., Farmer
Williams, R. Lee	(1891-1892)	Pataskala, O., Druggist
Williamson, F. Glade	(1899-1901)	Station "A," Columbus, O.
Willson, Gilbert Carl	(1893-1894)	
Wilson, S. M.	(1900-1901)	Bloomingburg, O., Farmer
Wilson, J. W.	(1895-1896)‡	New Concord, O., Buttermaker
Wilson, Sherman	(1900-1901)	Loveland, O., Operator Skimming Station, French Bros.' Dairy Co.
Winkler, Herbert J.	(1894-1896)	Hanging Rock, O., Market Gardener
Winspeare, Joseph Agar	(1893-1895)	Vickers, O., Dairy Farmer
Wise, Cyrus Newton	(1891-1892)‡	W. Wheeling, O.
Withoft, Clarence W.	(1893-1894)	Ft. Valley, Ga., Manager Six Fruit Farms
Wolf, La Verne Florence	(1899-1900)	Lucas, O.
Wyman, Thomas	(1900-1901)	Painesville, O., Assistant Teller Pioneer Trust Co.
Yeazell, Francis Ward	(1900-1901)	Neil Ave., Columbus, O., Mrs. F. L. Landacre.
Ziegler, Juan M.	(1892-1893)‡	Canton, O.
Zollinger, J. C.	(1900-1901)	Thornville, O., Farmer and Breeder Angus Cattle.

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University Bulletin Series 7 Number 5

OHIO STATE UNIVERSITY

CATALOGUE

OF THE

COLLEGE OF AGRICULTURE
AND
DOMESTIC SCIENCE

1903-1904

COLUMBUS
PUBLISHED BY THE UNIVERSITY

Entered at the Postoffice, Columbus Ohio, as second-class matter

OHIO STATE UNIVERSITY

CATALOGUE

OF THE

COLLEGE OF AGRICULTURE

AND

DOMESTIC SCIENCE

1903-1904

"One of the wisest things this government ever did was to make ample provision for the great agricultural institutions in this land. We now have more than half a hundred of them to testify to the worth and sagacity of the Congress of these United States."—*President McKinley.*

COLUMBUS
Published by the University
March, 1903

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DAYS AND DATES

1903

Summer Session, Lake Laboratory, Sandusky.	June 15 to	September 15
Entrance Examinations (8 a. m.)............	Monday, Tuesday,	September 21 September 22
First Term begins—Registration Day........	Tuesday,	September 22
Lectures and Class-work begin..............	Wednesday,	September 23
Meeting of Trustees.........................	Wednesday,	September 23
President's Annual Address.................	Friday,	September 25
Thanksgiving Recess.........................	Thursday, Friday,	November 26 November 27
Latest Date for Filing Theses Subjects......	Tuesday,	December 15
First Term ends.............................	Wednesday,	December 23

CHRISTMAS VACATION.

1904

Second Term begins—Registration Day.....	Tuesday,	January 5
University Day..............................	Monday,	February 22
Meeting of Trustees.........................	Wednesday,	April 6
Second Term ends............................	Friday,	April 1

SPRING RECESS.

Third Term begins—Registration Day.......	Wednesday,	April 6
Field Day—Athletic Association.............	Saturday,	May 14
Senior Vacation begins......................	Saturday,	May 28
Competitive Drill—Cadet Battalion..........	Saturday,	May 28
Memorial Day................................	Monday,	May 30
Latest Date for Presenting Theses..........	Friday,	June 10
Final Examinations..........................	Monday, to Friday,	June 13 June 17
Latest Date for Filing Bound Copy of Theses.	Friday,	June 17
Baccalaureate Sermon........................	Sunday,	June 19
Entrance Examinations (8 a. m.)............	Monday, Tuesday,	June 20 June 21
Class Day...................................	Monday,	June 20
Meeting of Trustees.........................	Tuesday,	June 21
Alumni Day..................................	Tuesday,	June 21
COMMENCEMENT	Wednesday,	June 22

SUMMER VACATION.

Summer Session, Lake Laboratory, Sandusky.	June 15 to	September 15
Entrance Examinations (8 a. m.)............	Monday,	September 19
First Term begins—Registration Day........	Tuesday,	September 20
Lectures and Class-work begin (all colleges)..	Wednesday,	September 21
Meeting of Trustees.........................	Wednesday,	September 21
Annual Address by the President (11 a. m.)...	Friday,	September 23

BOARD OF TRUSTEES

1902-1903

		Term Expires
THOMAS J. GODFREY	Celina	May 13, 1903
J. McLAIN SMITH	Dayton	“ 1904
PAUL JONES	Columbus	“ 1905
OSCAR T. CORSON	Columbus	“ 1906
DAVID M. MASSIE	Chillicothe	“ 1907
JOHN T. MACK	Sandusky	“ 1908
MYRON T. HERRICK	Cleveland	“ 1909

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JOHN T. MACK	O. T. CORSON	T. J. GODFREY

FACULTY OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

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Professor of Agriculture.

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Professor of Horticulture and Forestry.

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Professor of Agricultural Chemistry.

BENJAMIN FRANKLIN THOMAS, Ph. D.......................University Grounds
Professor of Physics.

GEORGE WELLS KNIGHT, Ph. D.......................169 West Eleventh Avenue
Professor of American History and Political Science.

ROSSER DANIEL BOHANNAN, B. Sc., C. E., E. M...Sixteenth Ave. and Indianola
Professor of Mathematics.

ERNST AUGUST EGGERS................................190 West Eleventh Avenue
Professor of Germanic Languages and Literatures.

ALBERT MARTIN BLEILE, M. D..................................218 King Avenue
Professor of Anatomy and Physiology.

WILLIAM ASHBROOK KELLERMAN, Ph. D..........175 West Eleventh Avenue
Professor of Botany.

BENJAMIN LESTER BOWEN, Ph. D..........................775 East Broad Street
Professor of Romance Languages and Literatures.

JOSEPH VILLIERS DENNEY, A. B..........................230 West Tenth Avenue
Professor of Rhetoric and the English Language.

ALLEN CAMPBELL BARROWS, A. M., D. D...............85 West Tenth Avenue
Professor of English Literature.

WILLIAM THOMAS MAGRUDER, M. E...........................191 King Avenue
Professor of Mechanical Engineering.

DAVID STUART WHITE, D. V. M.............West Fifth Avenue (near Arlington)
Professor of Veterinary Medicine.

HERBERT OSBORN, M. Sc...485 King Avenue
Professor of Zoology and Entomology.

FRANK EDWIN SANBORN, S. B............................303 West Eighth Avenue
Professor and Director of the Department of Industrial Arts.

JOSEPH NELSON BRADFORD, M. E........................54 West Tenth Avenue
Professor of Architecture and Drawing.

HENRY CURWEN LORD, B. Sc., F. R. A. S......................University Grounds
Professor of Astronomy and Director of the Emerson McMillin Observatory.

FREDERICK CONVERSE CLARK, A. M., Ph. D..................1634 Neil Avenue
Professor of Economics and Sociology.

*PAUL FISCHER, B. Agr., D. V. M..Arlington
Professor of Pathological Anatomy.

CHARLES SMITH PROSSER, M. S............................114 West Tenth Avenue
Professor of Geology.

JOHN ADAMS BOWNOCKER, D. Sc...............................1594 Neil Avenue
Professor of Inorganic Geology and Curator of Museum.

JOHN WRIGHT DECKER, B. Agr............................325 West Eighth Avenue
Professor of Dairying.

MINNIE AVA NELLIE STONER, B. Sc......................53 West Tenth Avenue
Professor of Domestic Science; in charge of the Department of Domestic Economy.

CHARLES SUMNER PLUMB, B. Sc......................107 West Eleventh Avenue
Professor of Animal Husbandry.

GEORGE WASHINGTON McCOARD, M. A......................232 Wilbur Avenue
Associate Professor of Mathematics.

CHARLES WALTER MESLOH, A. M............High Street and Eleventh Avenue
Associate Professor of Germanic Languages and Literatures.

CORNELIA PORTER SOUTHER...........................325 West Eighth Avenue
Associate Professor of Domestic Art.

CHARLES A. BRUCE, B. A..................................235 West Tenth Avenue
Associate Professor of Romance Languages.

THOMAS EWING FRENCH, M. E...........................1458 Worthington Street
Associate Professor of Architecture and Drawing.

SEPTIMUS SISSON, B. Sc., V. S............................124 West Fourth Avenue
Associate Professor of Veterinary Medicine.

DAVID R. MAJOR, Ph. D..292 King Avenue
Associate Professor of Education.

JOHN H. SCHAFFNER, A. M., M. S..........................40 West Tenth Avenue
Associate Professor of Botany.

CHARLES BRADFIELD MORREY, A. B., M. D....................86 King Avenue
Associate Professor of Anatomy and Physiology.

JAMES STEWART HINE, B. Sc............................26 West Fourth Avenue
Associate Professor of Entomology.

FRANCIS LEROY LANDACRE, B. A.........................299 West Sixth Avenue
Associate Professor of Zoology.

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* Resigned April 1, 1903.

ALFRED VIVIAN, Ph. G........244 West Tenth Avenue
Associate Professor of Agricultural Chemistry.

WILLIAM LUCIUS GRAVES, A. M........1313 Forsythe Avenue
Assistant Professor of Rhetoric.

CHARLES LINCOLN ARNOLD, M. Sc........328 West Eighth Avenue
Assistant Professor of Mathematics.

GEORGE H. McKNIGHT, Ph. D........303 West Seventh Avenue
Assistant Professor of Rhetoric and English Language.

FREDERICK EDWARD KESTER, M. E. in E. E........1473 Neil Avenue
Assistant Professor of Physics.

THOMAS HARVEY HAINES, Ph. D........310 West Seventh Avenue
Assistant Professor of Philosophy and Education.

JAMES EDWARD HAGERTY, Ph. D........212 Tenth Avenue
Assistant Professor of Economics and Sociology.

JOHN DAVIS BATCHELDER. B. A., LL.B........"The Vendome"
Assistant Professor of Romance Language.

*A. H. TUTTLE, B. A........215 West Tenth Avenue
Assistant Professor of American History and Political Science.

VERNON HAYES DAVIS, M. S. A........University Grounds
Assistant Professor in Horticulture.

THOMAS H. DICKINSON, B. Ph........244 West Tenth Avenue
Assistant Professor of Public Speaking.

J. WARREN SMITH, M. Sc........1422 Oak Street
Lecturer on Meteorology.

BURT BIDWELL HERRICK........167 Tenth Avenue
Instructor in Cheese Making.

WILLIAM H. RENCK........317 King Avenue
Instructor in Pattern Making and Founding.

CHARLES P. CROWE........971 Highland Street
Instructor in Forging.

THOMAS KENYON LEWIS, B. Sc........1337 Summit Street
Instructor in Drawing.

SILAS MARTIN........317 Fifteenth Avenue
Instructor in Drawing.

JOSEPH HENRY VOSSKUEHLER, M. E........54 West Tenth Avenue
Instructor in Drawing.

BERTHOLD AUGUST EISENLOHR, B. Ph........377 King Avenue
Instructor in Germanic Languages.

FRANK RUHLEN, B. Sc........University Grounds
Instructor in Zootechny.

MERRITT FINLEY MILLER, M. S. A........1526 Worthington Street
Instructor in Agronomy.

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* Absent on leave.

MELVIN DRESBACH, M. Sc.................................236 West Eighth Avenue
Instructor in Anatomy and Physiology.

RUDOLPH HIRSCH, B. Sc.....................................1060 South Front Street
Instructor in Agricultural Chemistry.

DELBERT ALONZO CROWNER, B. Sc...............................West Jefferson
Instructor in Butter Making.

OTTO EMERY JENNINGS...University Grounds
Garden Assistant in Botany.

W. B. SKIMMING...195 West Frambes Avenue
Student Assistant in Mathematics.

JAMES McOWEN..University Grounds
Florist.

OLIVE B. JONES..53 Eleventh Avenue
Librarian.

CHRISTOPHER P. LINHART, M. D.................Gymnasium—"The Vendome"
Professor of Physical Education and Director of the Gymnasium.

CAPTAIN GEORGE L. CONVERSE, U. S. A...................23½ East State Street
Professor of Military Science and Tactics.

CLARA MAUD BERRYMAN...............................75 West Eleventh Avenue
Director and Associate Professor of Physical Education for Women.

THE UNIVERSITY

THE OHIO STATE UNIVERSITY is divided into six colleges as follows:

The College of Agriculture and Domestic Science.
The College of Arts, Philosophy and Science.
The College of Engineering.
The College of Law.
The College of Pharmacy.
The College of Veterinary Medicine.

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry, and Bachelor of Science in Domestic Science; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, Bachelor of Science in Industrial Arts, and Bachelor of Science in Chemical Engineering or in Metallurgy; in the Course of Architecture, in the Short Course in Clayworking and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the course leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor or Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each state an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefit of the act of endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of study as are related to agriculture and mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect, and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the College and the election of a Faculty of instruction and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878, the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the Institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the large and broader view of the State's relation to public education, and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States under an act of 1890, by special appropriations of the General Assembly; and, in 1891, by a permanent annual grant from the State which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy River, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil Avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High Street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall and the Dormitories, will find the Neil Avenue cars more convenient.

The University has fifteen buildings devoted to instruction, one Boiler House, one Power House, two dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to one hundred and seventy thousand dollars. The land now occupied as a site, together with the farm, is valued at one million five hundred thousand dollars.

The buildings of special interest to the College of Agriculture and Domestic Science are Townshend Hall, Horticultural Hall, Veterinary Laboratory, Veterinary Hospital, Hayes Hall, Botanical Hall, Biological Hall, Orton Hall (Geological building; contains also the Library), and the Armory and Gymnasium.

The University now has over one hundred and twenty-five instructors, about forty departments of study, and offers thirty-seven distinct courses, all but one of which require two or more years for completion. Six of these courses are offered by the College of Agriculture and Domestic Science and are described in this catalogue.

TOWNSHEND HALL, OHIO STATE UNIVERSITY

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

The College of Agriculture and Domestic Science offers six distinct courses of study:

1. *A four years' Course in Agriculture.*
2. *A four years' Course in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science.*
6. *A two years' Course in Domestic Science.*

THE COURSE IN AGRICULTURE

About one-third of the students who have graduated from this course have engaged in farming, while most of the others have become professors, instructors or experimenters in the agriculture colleges and experiment stations of the country, or have obtained employment in the various Bureaus of the United States Department of Agriculture. The plan of the Department of Agriculture at Washington, D. C., to receive graduates of the agriculture colleges as student assistants, has opened an important and attractive field for young men and one in which, at present, the demand is greater than the supply.

Still larger numbers, who have pursued the course for two or three years, have become successful farmers or farm superintendents. There is a growing demand in commercial agriculture for men thoroughly trained in both the practice of agriculture and the underlying sciences. For these positions, the training cannot be too rigid. The success of the men who have graduated from the course in agriculture demonstrates conclusively that it is well adapted for those who intend to become farmers, farm superintendents, instructors or investigators.

The officers of the College recognize the danger of a too special or technical training of under-graduate students in a subject having such a wide scope and one requiring for its successful prosecution such breadth of knowledge. A careful examination of the course as outlined on page 14 will show that about one-third of the time of the student during the four years is, or may be, devoted to Language (English and foreign), History and Economics; about one-third to pure science, and one-third to technical or professional training. Electives in the senior year allow the student, if he chooses, to specialize in Zootechny (Animal Husbandry), Agronomy (Plant production or field agriculture), Dairying, or Agricultural Chemistry.

The Course in Agriculture is one of a number of regular four-year collegiate courses in the University. It is designed not only to make specially trained agriculturists, but also educated men. The course pre-supposes that a young man has had a High School training or its equivalent and that he has had the training in farm matters that usually comes to a young man who has lived on a farm. It supplements this training but does not displace it. The technical training in this course consists in those matters which years of experience in teaching have shown are either lacking or most necessary. Young men from the cities are entering this course, as they should do if they expect to engage in agricultural pursuits, but it should be understood that the Course in Agriculture does not, except incidentally, supply that training in farm matters which comes from actual life upon the farm. Such a course could be readily planned, but it would waste the valuable time of nine-tenths of the students who now enter the course. A fuller understanding of the course may be obtained by comparing the outline below with the departmental courses of study beginning on page 25. It will be seen that the general education and training is broad and liberal, and that the technical or professional training is thorough and exact.

No man or woman is thoroughly well educated until he or she has been taught both to do and to think. Both faculties are necessary and each assists the other. Experience and reason, however, teach that the students who enter the Course in Agriculture have been better trained in doing than in thinking. With them manual training is not as necessary as an educational factor as with students from the cities. On the other hand, special emphasis is laid on training the faculties of observation, reason and judgment. It should be understood, however, that the laboratory methods and facilities are most thorough and complete in all scientific and technical courses, giving a training which is impossible to obtain merely from books.

The Course in Agriculture leads to the degree of Bachelor of Science in Agriculture.

OUTLINE OF THE COURSE IN AGRICULTURE

NOTE.—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10) Principles.	6	Agr'l Chemistry (11) Principles.	6	Agr'l Chemistry (12) Organic.	6
Zoology (1) Invertebrate.	3½	Zoology (1) Invertebrate.	3½	Zoology (1) Vertebrate.	3½
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
†French (1) Elementary. †German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary German (1) Elementary or Spanish (1) Elementary	4	French (1) Elementary. German (1) Elementary or Spanish (1) Elementary.	4
Cadet Service.*		Drawing (10)	3	Shopwork (1)	3
		Gymnasium.		Cadet Service.	

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*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' Cadet Service as a condition of graduation. Students physically incapacitated for Cadet Service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agriculture (28) Breeds of Live Stock.	4½	Agriculture (29) Breeds of Live Stock.	4½	Agriculture (30) Principles of Breeding.	4½
Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
°Horticulture (1) Elements.	4½	°Shopwork (2)	3	°Horticulture (3) Plant Propagation.	4½
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology.	2½	Zoology (4) Economic Entomology.	2½	Zoology (4) Economic Ento'logy.	2½
Cadet Service.		Gymnasium.		Cadet Service.	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4½	Agriculture (12) Soils.	4½	Agriculture (13) Crops.	4½
				Drawing (16)	3
Geology (2) General.	5	Geology (5) Applied.	3½	Astronomy (3) Meteorology.	2
*Vet. Medicine (28) Anatomy.	4½	Vet. Medicine (29) General Pathology.	4½	Vet. Medicine (30) Special Pathology.	4½
‡†French (1) Elementary. ‡†German (1) Elementary. or ‡Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4

FOURTH YEAR

REQUIRED

American History (1) U. S. Political. or Economics (1) Political Economy	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3	American History (1) U. S. Political. or Economics (1) Political Econo'y	3
Thesis	2	Thesis	2	Thesis	2

Eight hours per week through the year chosen from any of the following courses:

Agriculture (31) Feeding.	4	Agriculture (32) Hygiene and Management.	4	Agriculture (16) Rural Economics.	4
Agriculture (14) Animal Mechanics.	4½	Agriculture (26) Live Stock Markets and Commerce.	4½	Agriculture (27) Wools and other fibres.	4½
Agriculture (19) Agronomy.	5	Agriculture (20) Agronomy.	5	Agriculture (21) Rural Engineering.	5
Agriculture (22) Dairying.	5	Agriculture (15) Dairying.	5	Agriculture (25) Dairying.	5
*Agr'l Chemistry (6) Laboratory.	4	Agr'l Chemistry (6) Laboratory.	4	Agr'l Chemistry (6) Laboratory.	4
Vet. Medicine (24)	3	Vet. Medicine (18)	3	Vet. Medicine (18)	3
Bacteriology (5)	4	Bacteriology (5)	4	Bacteriology (5)	4

ELECTIVE

Four hours a week through the year chosen from any of the courses given in any of the Colleges of the University upon which the student is qualified to enter, except the College of Law.

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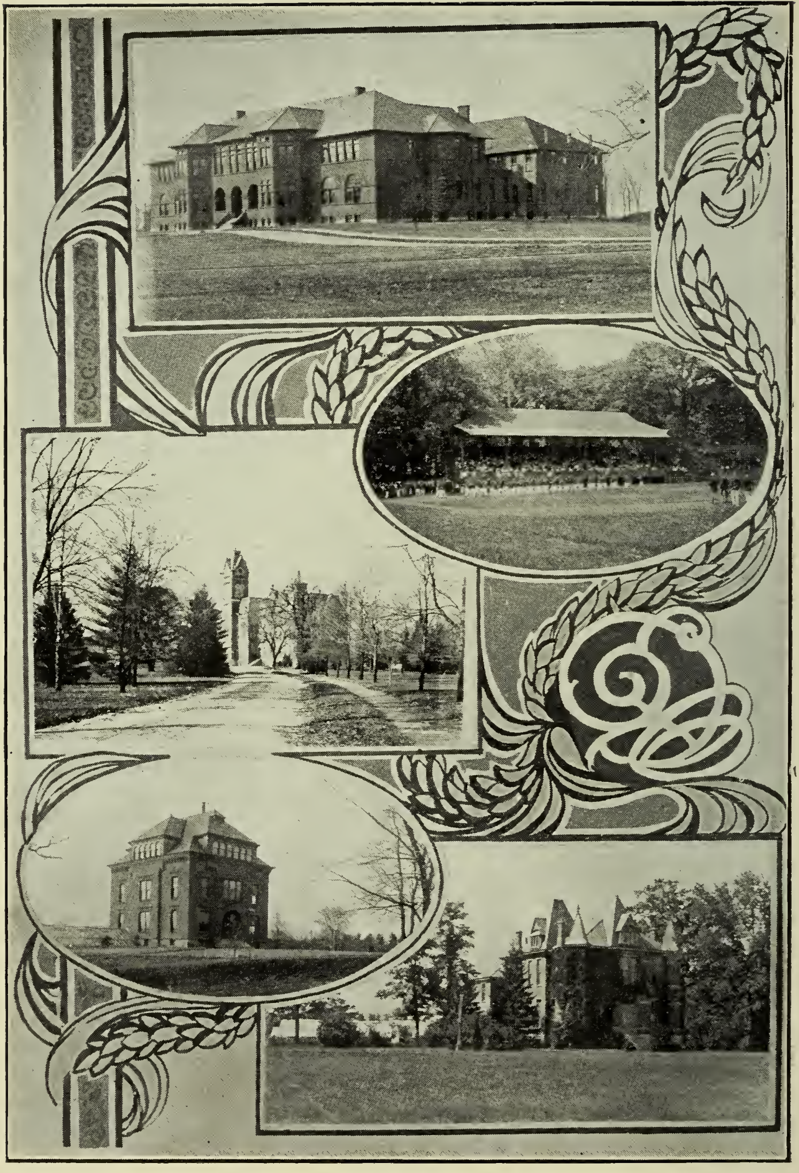
† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

° After 1903-1904, Botany (6), (7), (8), 4.

* In case a student intends to elect Agricultural Chemistry (6) 4, and Agriculture (19), (20), and (21) 4, he may elect Agricultural Chemistry 5 hours in place of Veterinary Medicine (28), (29), and (30) 4½.

‡ After 1904-1905, Horticulture (1), (2), (3), 4½.



CHEMICAL HALL
PRIZE DRILL, ATHLETIC FIELD
UNIVERSITY HALL
HORTICULTURAL HALL
BOTANICAL HALL

THE COURSE IN HORTICULTURE AND FORESTRY

This course was established to meet a growing demand for special education and training in the College of Agriculture. It seeks to familiarize the student with those sciences that are fundamental, and to give a certain amount of technical and literary training.

Among the sciences that form the natural basis of a sound, practical knowledge of Horticulture and Forestry are chemistry, physics, botany, geology, zoology and entomology. To these a large part of the first two years of the course is devoted. In addition, one modern language, rhetoric or English composition, drawing and shopwork are required.

The last two years of the course are devoted mainly to Horticulture and Forestry proper, with some more strictly cultural studies like history or economics.

A third part of the required work of the fourth year is elective, and may be chosen from any course in the University upon which the student is qualified to enter.

The primary object of the course is to teach and train those who desire to become fruit-growers, gardeners, nurserymen, florists or foresters what they most need to know as a foundation for their professional work. To this end both the science and art, or the theory and practice are taught.

While the sciences are invaluable in giving accurate and definite knowledge regarding the origin and growth of plants, the composition and physical properties of the soil, they cannot tell us just how to select varieties, or how to propagate, transplant, cultivate, fertilize, prune, spray, or what is equally essential in practice, how to harvest, store and market the product to the best advantage.

All the science in the world, while it may signally help, cannot of itself make a successful fruit culturist, florist, landscape gardener or forester.

The establishment of large commercial orchards, and the growing of small fruits and market garden vegetables in a commercial way, are becoming more and more common. Floriculture is developing with marked rapidity, and the subject of forestry is engaging the attention of the thoughtful as never before.

For earnest, enterprising young men and women, Horticulture and Forestry, in their various branches, offer as large a reward for intelligent, well-directed effort as any other pursuit or profession. Forestry presents an especially inviting field for young men. While other professions are crowded, the demand for foresters is by no means equal to the supply. Men well educated and trained in forestry find immediate employment at good remuneration. Many are employed by the United States Bureau of Forestry, and the salaries received compare favorably with incomes derived from other professions. There is also a growing demand for trained foresters by large corporations and private land-owners.

Over one-half of the students who have graduated in this course,, since its establishment about ten years ago, are filling position of honor and responsibility that command salaries ranging from fifteen hundred to two thousand dollars a year. One-half of the remainder, including some of the more recent graduates, are receiving salaries of one thousand dollars or more a year.

Every useful vocation is respected in proportion to the measure of intellect it requires and rewards, and can never rise above this level.

Horticulture and Forestry are intellectual pursuits, and in their practice the strongest mind and most vigorous intellect may find scope for profitable employment.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10) Principles.	6	Agr'l Chemistry (11) Principles.	6	Agr'l Chemistry (12) Organic.	6
Zoology (1) Invertebrate.	3½	Zoology (1) Invertebrate.	3½	Zoology (1) Vertebrate.	3½
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
*French (1) Elementary. *German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4
Cadet Service.		Drawing (10)	3	Shopwork (1)	3
		Gymnasium.		Cadet Service.	

SECOND YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Horticulture (1) Elements.	4½	Horticulture (2) Vegetable Forcing.	4½	Horticulture (3) Plant Propagation.	4½
Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5
Physiology (1) Anatomy.	3	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3
Zoology (4) Economic Entomology.	2½	Zoology (4) Economic Ento'logy.	2½	Zoology (4) Economic Entomology.	2½
‡*French (1) Elementary. ‡*German (1) Elementary. or ‡Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4
Cadet Service.		Gymnasium.		Cadet Service.	

THIRD YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Horticulture (5) Varieties of Fruit.	4½	Horticulture (6) Principles of Fruit Culture.	4½	Horticulture (14) Olericulture.	4½
Agriculture (11) Farm Equipment.	4½	Agriculture (12) Soils.	4½	Agriculture (13) Crops.	4½
				Astronomy (3) Meteorology.	2
				Drawing (16)	3
Geology (2) General.	5	Geology (5) Applied.	3½	Zoology (3) Economic Entomology.	2½
French (2) German (4) or Botany (17) Forest.	4	French (2) German (4) or Botany (18) Histology of Wood.	4	French (2) German (4) or Botany (19) Forest Ecology and Pathology.	4

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* Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

‡ After 1903-1904, Botany (6), (7), (8) 4.

FOURTH YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Horticulture (8) Elements of Floriculture.	2½	Horticulture (9) Window Gardening.	2½	Horticulture (10) Home Gardening.	2½
Horticulture (11) Elements of Forestry.	5	Horticulture (12) Forest Technology and Timber Physics.	5	Horticulture (13) Forest Economics.	5
American History (1) U. S. Political or Economics (1) Political Economy.	3	American History (1) U. S. Political or Economics (1) Political Econo'y.	3	American History (1) U. S. Political. or Economics (1) Political Econo'y.	3
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Five hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except the College of Law.

THE SHORT COURSE IN AGRICULTURE

The Short Course in Agriculture is a two years' course, the first year of which is made up largely of studies preparatory either to the second year of the short course or the first year of the four years' course in Agriculture or in Horticulture and Forestry. While believing that the four years' course is none too long for the students who expect to engage in agricultural pursuits, yet it is recognized that there are many students whose circumstances make it impossible to take a four years' collegiate course in Agriculture, and yet who are anxious and would be greatly benefited by taking a less extended training for their life work.

This course is especially desirable for students or rather mature age. The Short Course in Agriculture also enables students who lack the training to enter the four years' course in Agriculture or in Horticulture and Forestry to make up in large part such deficiency. A considerable number of students in these advanced courses have formerly been students of the Short Course. This course contains as thorough instruction in Agriculture, Animal Industry, Dairying, Horticulture (including Fruit Culture, Vegetable Gardening and Floriculture), and Forestry, Veterinary Medicine, Economic Entomology and the Sciences underlying these subjects as the time will admit. The second year contains optional work so that it is possible for students to specialize in Horticulture, Agriculture or Animal Industry and Dairying.

No degree is given on the completion of the Short Course in Agriculture, but a certificate is issued stating fully the work done.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1) Principles.	6	Agr'l Chemistry (8) Organic.	6	Agr'l Chemistry (9) Applications.	6
Mathematics (1) Algebra.	5	Mathematics (3a) Geometry.	5	Botany (1) Elementary.	5
Physics (1) Elementary.	5	Physics (1) Elementary.	5	Geology (1) Physiography	5
Physiology (2) General.	3	Drawing (10) Mechanical.	3	Shopwork (2)	3
Cadet Service.		Gymnasium.		Cadet Service.	

SECOND YEAR

Not less than 15 hours per week through the year chosen from any of the following courses subject to conditions named under "Departments of Instruction."

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agriculture (28) Breeds of Live Stock.	4½	Agriculture (29) Breeds of Live Stock.	4½	Agriculture (30) Principles of Breeding.	4½
Agriculture (11) Farm Equipment.	4½	Agriculture (12) Soils.	4½	Agriculture (13) Crops.	4½
Agriculture (22) Dairying.	5	Agriculture (15) Dairying.	5	Agriculture (25) Dairying.	5
Agriculture (31) Feeding.	4	Agriculture (32) Hygiene and Management.	4	Agriculture (16) Rural Economics.	4
Horticulture (1) Elements.	4½	Horticulture (2) Vegetable Forcing.	4½	Horticulture (3) Plant Propagation.	4½
Horticulture (5) Varieties of Fruit.	4½	Horticulture (6) Principles of Fruit Culture.	4½	Horticulture (14) Olericulture.	4½
Vet. Medicine (28) Anatomy.	4½	Vet. Medicine (29) General Pathology.	4½	Vet. Medicine (30) Special Pathology	
		Shopwork (1)	3	Zoology (7)	3
		Bacteriology (2)	2		
Cadet Service.		Gymnasium.		Cadet Service.	

THE COURSE IN DAIRYING

The Course in Dairying is established to meet the wants of those who have neither the time nor means for the above extended courses. It is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and content of butter fat; the use and care of centrifugal separators and other dairy devices; the making of butter and cheese by the most improved methods; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock; the diseases of the cow; the chemistry of milk; the effect of bacteria and other agents upon milk and its products; the care of boilers and engines and similar subjects.

The Course in Dairying begins the first Tuesday in January; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."

OUTLINE OF THE COURSE IN DAIRYING

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations and laboratory work.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Four hours each week. Lectures and laboratory practice.

Bacteriology (2). Bacteria in their relation to Milk, Butter and Cheese—Two hours each week. Lectures and laboratory practice.

Mechanical Engineering (26). Steam Machinery.—One hour each week.

Veterinary Medicine (7). Diseases of the Cow.—Three hours each week.

THE COURSES IN DOMESTIC SCIENCE

Six years ago, the Ohio State University recognized the demand for a broader education for young women, by introducing a course in Domestic Economy. Since there is a growing demand for university-trained women in the secondary schools, colleges and university departments, the four years' course has been revised to train women for teaching such work as well as for the rational and scientific administration of the home as a social unit.

The course is planned for no one class of women; not particularly for city or country girls, but in the hope that it may appeal to the most womanly side of all women. The desire is that by the practical and scientific study of home problems, women shall come to see more in household duties and home-making than a mere routine; to recognize that Economics has its foundation in domestic relations; that Science is of great importance in all that pertains to right living; that Art and Ethics have no higher use than to purify and beautify everyday subjects; and that the history and literature of the past have direct bearing upon the present. In other words, the authorities believe that by practically applying the pure sciences and arts to domestic life, our women shall be better able to build ideal homes and an ideal nation.

For convenience, the studies pursued by the Department of Domestic Economy are subdivided as follows: Food Economics, including general and special Dietetics, History, and Manufacture of Foods, etc.; Preservation of Foods, Hygiene of Clothing, Household Economics, etc., which directly make demands along scientific lines, are classed as Domestic Science; a study of the Industrial and Artistic Evolution of Society; a study of Textiles; Historic Costume, etc., and the general work of developing beautiful and harmonious surroundings are classed as Domestic Art.

The college offers two courses in Domestic Economy: A two years' course planned for those who can give but a limited time to university training, and a four years' course, requiring a more advanced standing for entrance and leading to the degree of Bachelor of Science in Domestic Science.

As outlined further on, the lectures and laboratory work dealing particularly with Domestic Economy, require about one-third of the schedule time during the last three years of the long course; the first year and the remaining thirteen or fourteen hours required during each term of the second, third and fourth years, are devoted to allied University studies.

The equipment of the Department has been carefully selected and is adequate for thorough, systematic and conscientious work. Every effort is made to develop the course along broad and safe lines, and to keep in touch with the best methods in progressive educational work.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10) Principles.	6	Agr'l Chemistry (11) Principles.	6	Agr'l Chemistry (12) Organic.	6
Drawing (29)	2	Drawing (29)	2	Drawing (29)	2
Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½	Rhetoric (1) and (21) English Composition.	2½
Zoology (1) Invertebrate.	3½	Zoology (1) Invertebrate.	3½	Zoology (1) Vertebrate.	3½
†French (1) Elementary. †German (1) Elementary. Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. Spanish (1) Elementary.	4
Hygiene and Phys Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.*	5	Agr'l Chemistry (4) Laboratory.*	5	Physiology (3) Chemical Physiology.	3
				Bacteriology (3)	2
Domestic Economy (1) Food Economics.	5	Domestic Econo'y (2) Food Economics.	5	Domestic Economy (3) Food Economics.	5
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
‡†French (1) Elementary. ‡†German (1) Elementary or ‡Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4	French (1) Elementary. German (1) Elementary. or Spanish (1) Elementary.	4
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

THIRD YEAR

REQUIRED

Domestic Economy (4) Preservation of Foods.	5	Domestic Econo'y (5) Domestic Art.	5	Domestic Economy (6) Domestic Art.	5
Drawing (20) Mechanical.	1½	Drawing (15) Architectural.	1½	Drawing (15) House Designing.	1½
French (2) or Germany (4)	4	French (2) or German (4)	4	French (2) or German (4)	4

Any two of the following studies:

English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Economics (1) Political Economy.	3	Economics (1) Political Economy.	3	Economics (1) Political Economy.	3
Education (1)	3	Education (1)	3	Education (1)	3
European History (1)	3	European History (2)	3	European History (3)	3
American History (1) U. S. Political.	3	American History (1) U. S. Political.	3	American History (1) U. S. Political.	3

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* Specific laboratory work will be provided for students in this course, where necessary.

† Where credit is received for elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

‡ After 1903-1904, Botany (6), (7), (13) 4.

FOURTH YEAR

REQUIRED

First Term	Credit hours	Second term	Credit hours	Third Term	Credit hours
Domestic Economy (7)	4	Domestic Econo'y (8)	4	Domestic Economy (9)	4
Domestic Art.		Domestic Art.		Domestic Art.	
Horticulture (8)	2½	Horticulture (9)	2½	Horticulture (10)	2½
Elements of Floriculture.		Window Gardening.		Home Gardening.	
Zoology (5)	3	Domestic Econ'y (11)	2½	Domestic Economy (10)	2½
Entomology.		Therapeutic Diet, etc.		Household Economics.	
Thesis	2	Thesis	2	Thesis	2

ELECTIVE

Six hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except in the College of Law.

OUTLINE OF THE SHORT COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10)	6	Agr'l Chemistry (11)	6	Agr'l Chemistry (12)	6
Principles.		Principles.		Organic.	
Physics (1)	5	Physics (1)	5	Botany (1)	5
Elementary.		Elementary.		Elementary.	
French (1)	4	French (1)	4	French (1)	4
German (1)		German (1)		German (1)	
or		or		or	
Spanish (1)		Spanish (1)		Spanish (1)	
Drawing (29)	2	Drawing (29)	2	Drawing (29)	2
Hygiene and Phys. Train.		Hygiene and Phys. Train.			

SECOND YEAR

REQUIRED

Domestic Economy (1)	5	Domestic Econo'y (2)	5	Domestic Economy (3)	5
Domestic Economy (4)	5	Domestic Econo'y (5)	5	Domestic Economy (6)	5

ELECTIVE

Not less than seven hours per week chosen from the following courses, subject to the conditions named under "Departments of Instruction."

Drawing (20)	1½	Drawing (15)	1½	Drawing (15)	1½
Botany (6)	4	Botany (7)	4	Botany (13)	4
Physiological.		Economic.		Household.	
Education (1)	3	Education (1)	3	Education (1)	3
English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Horticulture (8)	2½	Horticulture (9)	2½	Horticulture (10)	2½
Elements of Floriculture.		Window Gardening.		Home Gardening.	
Zoology (1)	3½	Zoology (1)	3½	Zoology (1)	3½
Invertebrate.		Invertebrate.		Vertebrate.	
Rhetoric (1) and (21)	2½	Rhetoric (1) and (21)	2½	Rhetoric (1) and (21)	2½
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
European History (1)	3	European History (2)	3	European History (3)	3
American History (1)	3	American History (1)	3	American History (1)	3

FARM BUILDINGS, OHIO STATE UNIVERSITY

STOCK JUDGING ROOM, TOWNSHEND HALL

THE DEPARTMENTS OFFERING INSTRUCTION IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

To determine relation and sequence of studies, consult outlines of College courses beginning on page 14.

AGRICULTURE

Townshend Hall.

ZOOTECHNY AND RURAL ECONOMICS

Professor Hunt, Professor Plumb, Mr. Ruhlen.

28. **Breeds of Live Stock.** First term. Lectures and recitations upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum in scoring and judging live stock. Credit four and one-half hours. Sec. I: M., Tu., W., 8 and F., 1 to 4. Sec. II: M., Tu, F., 11 and W., 1 to 4.

29. **Breeds of Live Stock.** Second term. Lectures and recitations upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum in scoring and judging live stock. Credit four and one-half hours. Sec. 1: M., Tu., W. 8 and F., 1 to 4. Sec. II: M., Tu, F., 11 and W., 1 to 4.

30. **Principles of Breeding.** Third term. Lectures and recitations upon the laws of heredity and their practical applications. Practicum in scoring and judging live stock and in writing and tracing pedigrees, illustrating methods and studying inheritance. Credit four and one-half hours. Sec. I: M., Tu., W., 8 and F., 1 to 4. Sec. II M, Tu, F., 11 and W., 1 to 4.

31. **Stock Feeding.** First term. Lectures and recitations upon the laws of nutrition, the character of food stuffs, and the methods of feeding different kinds of domestic animals. Considerable practice is given in calculating digestibilities, nutritive ratios, and feeding standards. Credit four hours, M., Tu., Th., F., 10.

32. **Hygiene and Management.** Second term. Lectures and recitations upon the principles of hygiene and their application to the management of domestic animals. Credit four hours. M., Tu., Th., F., 10.

40. **Stock Feeding and Hygiene.** Second term. Lectures and recitations upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Considerable practice is given in calculating digestibilities,

FARM ENGINEERING, OHIO STATE UNIVERSITY

STUDENT DEMONSTRATING GAITS OF HORSES, LIVE STOCK JUDGING ROOM nutritive ratio and feeding standards. For students in veterinary medicine. Credit five hours.

14. **Animal Mechanics and Exterior.** First term. Lectures and recitations upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum in measuring animals and testing the value of given measurements for given purposes. Credit four and one-half hours. Not to be given in 1903-1904.

26. **Live Stock Markets and Commerce.** Second term. Lectures and recitations upon the methods of preparing and shipping stock to local and distant markets; of the various available markets and the relationship of prices to grades of stock; of stock-yard and packing-house methods; of export trade and methods of shipping abroad, etc. Practicum making up comparative market reports and inspecting transportation agencies, stock yards and packing houses. Credit four and one-half hours. Not to be given in 1903-1904.

27. **Wools and Other Animal Fibers.** Third term. Lectures and recitations upon the sources of supply of wools and other animal fibers, methods of shearing, market classification, preparation and shipping, relative values of fibers of breeds and crosses. Practicum in shearing, classifying wools, making laboratory study of fibers, etc. Credit four and one-half hours. Not to be given in 1903-1904.

16. **History of Agriculture and Rural Economics.** Third term. Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Credit four hours. M., Tu., Th., F., 10.

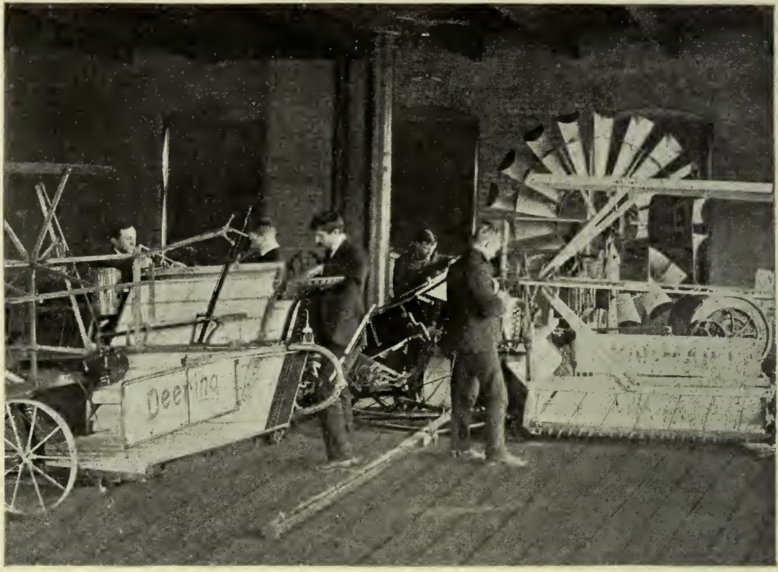
5. **Dairy Farming.** Second term. Lectures upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum in scoring and judging live stock, writing pedigrees and calculating feeding standards. Credit three hours. W., F., 8 and S., 10 to 12.

AGRONOMY AND FARM EQUIPMENT

Professor Hunt, Mr. Miller.

11. **Farm Equipment.** First term. Lectures and recitations upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. Credit four and one-half hours. M., Tu, W., 9 and Th. or F., 1 to 4.

12. **Soils.** Second term. Lectures and recitations upon the origin, formation, kinds and physical properties of soils and their improvements by cultivation, fertilization, drainage and irrigation. Practicum in laboratory testing physical properties of several soils; determining the relation of soils to heat, moisture, air and fertilizers, and making mechanical analyses. Credit four and one-half hours. M., Tu., W., 9 and W., Th. or F., 1 to 4, or S., 8 to 11.



MUSEUM OF AGRICULTURAL IMPLEMENTS, TOWNSHEND HALL

SOIL PHYSICS LABORATORY, TOWNSHEND HALL

13. **Farm Crops.** Third term. Lectures and recitations upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum with growing and dried specimens of crops, including grasses, clovers and other forage crops. Credit four and one-half hours. M., Tu., W., 9 and Th. or F., 1 to 4.

19. **Agronomy.** First term. Lectures and recitations on the physical properties of soils; the relation of soils to heat, air and moisture; the effect of fertilizers on soil structure and fertility; consideration of practical methods of tillage as affecting crop producing power of the soil; laboratory and field experiments in physical properties of soils; mechanical analysis of soils with instructions in the methods of work in the Bureau of Soils of the United States Department of Agriculture. Credit five hours. Th., F., 9 and M., Tu., 1 to 4.

This course must be preceded by course (12).

20. **Agronomy.** Second term. Lectures and recitations upon the methods and character of experiment station work and upon the results in plant breeding, especially as relates to field crops. Seminars upon the best methods of crop production, including a detailed study of experimental results with one or more field crops. Credit five hours. Th., F., 9 and M., Tu., 1 to 4.

This course must be preceded by course (13).

21. **Rural Engineering.** Third term. Lectures, recitations and practicum on: (a) Laying out the farm, including location of buildings and works; division of the farm into fields and yards, and the survey and measurement of the same; (b) Construction of buildings and works, including water supply, drains, sewage system, and roads; (c) The construction and use of farm machinery, including the application of mechanical principles in its structure and operation. Special attention will be given to comparisons and tests of various makes and kinds of farm machinery. Credit five hours. Th., F., 9 and M., Tu., 1 to 4.

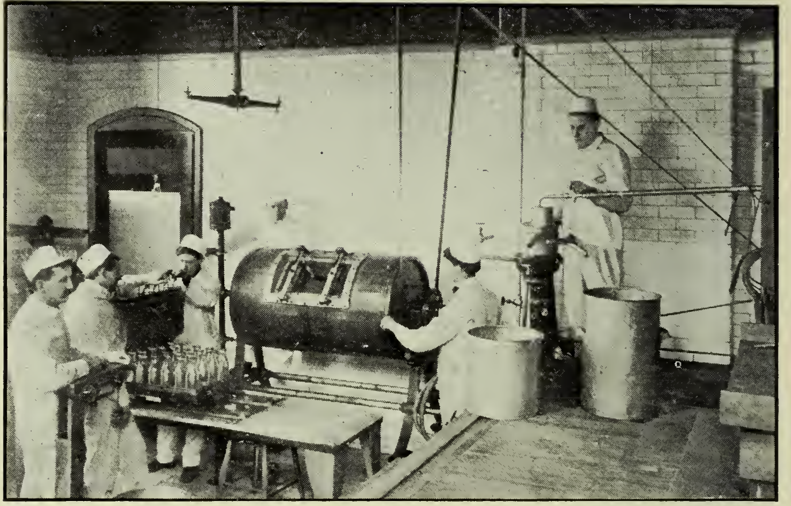
This course must be preceded by course (11).

DAIRYING

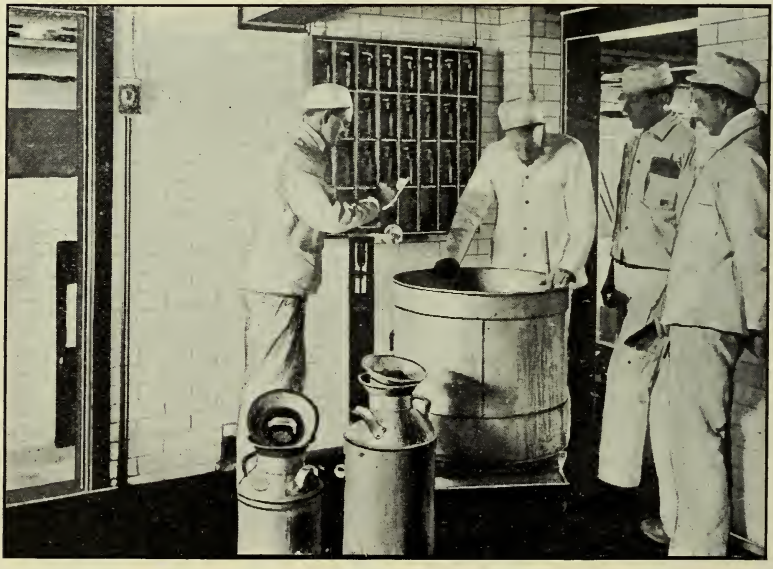
PROFESSOR DECKER, MR. HERRICK, MR. CROWNER.

6. **Butter Making and Cheese Making.** Second term. Practice four afternoons each week in testing milk as to purity, content of butter fat; in the use and care of centrifugal separators of different makes and other creamery and dairy devices; and in the making of butter and cheese by the most improved methods. In a word, all the essential operations of the creamery, factory and home dairy, are repeatedly performed under the guidance and direction of the instructors until efficiency is attained. Neither is the student allowed to do this work by the rule of the thumb. He is required to follow the milk from the time it enters the laboratory until the finished product leaves it, and to determine the points in the process where losses occur and the reasons therefor. Credit six hours. M., Tu., W., Th., 1 to 5.

7. **Butter Making and Cheese Making.** Second term. Lectures and recitations on methods of creaming; factors which control the thorough-



STUDENTS PASTEURIZING AND BOTTLING MILK, TOWNSHEND HALL



STUDENTS WEIGHING AND SAMPLING MILK, TOWNSHEND HALL ness of separation, either by gravity or centrifugal force; explanations of the continuous separation of cream; of ripening cream and testing for acidity; on the philosophy and methods of churning; the effect of temperature; acidity and richness of cream on time and completeness of churning; on the salting, working, packing and marketing of butter; on the fermentation of milk as affecting cheese making; on the curd test for detecting gassy or bad flavored milk; on the rennet test; on the cutting, heating, milling, salting and pressing of the curd; on the curing and shipping of cheese; on the judging of butter and cheese and the pasteurization of milk. There are also lectures upon the construction, equipment and operation of creameries, cheese factories, dairies and milk depots. Each student is required to draw a plan of a dairy, a creamery or a cheese factory and prepare the estimate for the equipment of the same. Credit two hours. Tu., Th., 8.

22. **Elements of Dairying.** First term or third term. Lectures and laboratory work. Credit five hours. W., Th., 11 and M., Tu., 1 to 4 or F., 1 to 4 and S., 8 to 11.

15. **Butter Making.** Second term. Lectures and laboratory work. Credit five hours. W., Th., 11 and F., S., 1 to 4.

This course must be preceded by course (22).

25. **Cheese Making.** Third term. Lectures and laboratory work. Credit five hours. W., Th. and M., Tu., 1 to 4 or F., 1 to 4 and S., 8 to 11.

This course must be preceded by course (22).

18. **Milk Inspection.** First term. One lecture or laboratory period a week. Credit one hour. Required in the course in Veterinary Medicine.

34. **Advanced Dairying.** Elective three terms. Seminar and laboratory work. A study of experiment station work and other dairy literature with experiments in laboratory to verify statements found. Practice in producing fancy dairy products. Credit two hours.

33. **Household Dairying.** Third term. This course will treat of the composition and nature of milk and its products, their purity and adulterations and their physical and chemical properties in cookery. Credit two hours. Elective in the course in Domestic Science.

AGRICULTURAL CHEMISTRY

(Townshend Hall, Rooms 29, 30, 34 and 35.)

Professor Weber, Associate Professor Vivian, Mr. Hirsch.

10. **Principles of Chemistry and Chemical Nomenclature.** First term. Lectures and recitations upon elementary inorganic chemistry and laboratory experiments with the elements studied in class, using McPherson's Laboratory Note Book as a guide. Credit six hours. Recitations, M., W., F., 9; laboratory, Sec. I, M., Tu., 1 to 4; Sec. II, M., W., 1 to 4; Sec. III, W., F., 1 to 4.

11. **Principles of Chemistry and Chemical Nomenclature.** Second term. Lectures and recitations upon elementary inorganic chemistry. Laboratory work during first half of term continuation of first term; sec-

AGRICULTURAL CHEMICAL LABORATORY, TOWNSHEND HALL

DAIRY STUDENTS, AGRICULTURAL CHEMICAL LABORATORY ond half qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Credit six hours. Recitations, M., W., F., 9; laboratory, Sec. I, M., Tu., 1 to 4; Sec. II, M., W., 1 to 4; Sec. III, Tu., W., 1 to 4.

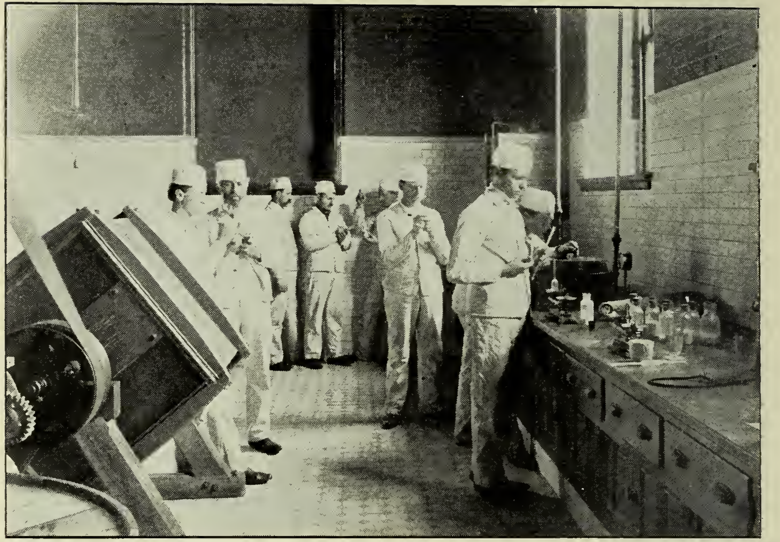
12. **Organic Chemistry.** Third term. Lecture and recitations upon elementary organic chemistry and laboratory work in qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Credit six hours. Recitations, M., W., F., 9; laboratory, Sec. I, M., Tu., 1 to 4; Sec. II, M. W., 1 to 4; Sec. III, W., F., 1 to 4.

1. **Elements of Inorganic Chemistry.** First term. Lectures and recitations upon non-metals and laboratory experiments with the elements studied in class, using McPherson's Laboratory Note Book as a guide. Credit six hours. Tu., Th., F., 10 and M., W., 1 to 4.

8. **Elements of Organic Chemistry.** Second term. Lectures and recitations during first half of term upon metals of agricultural interest; during second half of term lectures upon the simpler organic compounds of agricultural interest. Laboratory work during first half of term continuation of first term; second half qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Credit six hours. Tu., Th., F., 10 and M., W., 1 to 4.

9. **Application of Chemistry to Agriculture.** Third term. Lectures and recitations embrace the following topics: Ingredients of plants, organic and inorganic, essential and non-essential; sources of plant food, air and soil; nature of soil, mechanical portion, nutritive portion, assimilable and reserve plant food; soil exhaustion and amelioration; barnyard manure, its sources, composition and preservation; commercial fertilizers, their rational use and methods of determining the needs of soils; feeding stuffs and feeding rations. Laboratory work consists of qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Credit six hours. Tu., Th., F., 10 and M., Tu., 1 to 4.

4. **Lectures and Laboratory.** Three terms. Lectures on the industries related to agriculture, as the manufacture of sugar from cane, sorghum and beets; the manufacture of starch, glucose and dextrine; the nature and manufacture of vinegar, as fruit, malt and distilled vinegar; the manufacture of alcohol, malt liquors and wines. Laboratory practice Monday and Tuesday afternoons or Thursday and Friday afternoons, and Thursday, 8-10 A. M., consists of the official methods of analyzing fertilizer, feeding stuffs, milk, butter and cheese; the analysis of sugar, syrup and sugar producing plants, as beets; determination of cane sugar and milk sugar by means of the polariscope. The analysis of flour, fruits, vegetables, condiments, etc. The analysis of vinegar, as cider, malt and distilled vinegar; the analysis of spirituous and fermented liquors. Credit five hours. Students of other departments may also elect three hours through the year in this course. For students in the courses in Agriculture and Horticulture and Forestry: Recitation, F., 8; laboratory, M., Tu., 1 to 4, Th., 8 to 10; in Domestic Science, recitation, Tu., 9; laboratory, Th., 8 to 10, Th. F., 1 to 4.



STUDENTS TESTING MILK, TOWNSHEND HALL

PHYSIOLOGICAL LECTURE ROOM, BIOLOGICAL HALL

6. **Laboratory.** Three terms. The work of this course consists of the complete sanitary analysis of water, for which a special room detached from the main laboratory has been fitted up; the complete analysis of soils; the various official methods of determining nitrogen, potash and phosphoric acid; the analysis of oils and fats, complete analysis of grain; the analysis of tea and coffee; the examination of foods, syrups, spices, condiments, flavoring extracts for adulteration; also any work of previous courses, which for lack of time, may not have been completed. Credit four hours. May be elected as a three or five-hour credit. Th., 10 and W., Th., 1 to 4.

7. **Chemistry of Milk and Milk Testing.** Second term. For dairy students. The lectures includes a short course in elements of chemistry. The laboratory work covers the following manipulations: The Babcock method of determining fat in pure milk, skimmed milk, cream, sour milk and cheese; the testing of instruments (milk bottles, lactometers, etc.). The calculation of the composition of milk by Fleischman and Babcock formulæ; the determination of preservatives in milk; the detection of artificial colors in butter and oleomargarine, etc. Credit four hours. W., Th., 11, F., 2 to 4, S., 8 to 10.

13. **Applications.** Three terms. Lectures and recitations upon applied chemistry. Laboratory work in quantative analysis. Credit five hours. For students in Courses in Agriculture, Tu., 9 and M., Th., F., 1 to 4; in Horticulture and Forestry, Tu., 9 and M., W., F., 1 to 4; in Domestic Science, M., W., 11 and Th., F., 1 to 4.

This course will not be given until 1904-1905.

14. **Advanced.** Three terms, optional. Lectures on industries allied to agriculture. Laboratory work consists of official methods of analysis, sanitary and complete water analysis, etc. Credit four hours. Recitation, F., 8; laboratory, first and second term, M., Th., 1 to 4; third term, Th., 1 to 4, S., 8 to 11.

ANATOMY AND PHYSIOLOGY

(Biological Hall, Rooms 12 and 20.)

Professor Bleile, Mr. Dresbach.

1. **Human Anatomy and Physiology.** Three terms. Lectures, recitations and laboratory work. This course must be preceded by or accompanied with, a course in chemistry. Credit three hours. Sec. 1: M., W., F., 8. Sec. 2: M., Th., F., 10.

2. **General Physiology.** First term. Lectures, recitations and demonstrations. Credit three hours. M., W., F., 9.

3. **Chemical Physiology.** Third term. Credit three hours. Th., F., 1 to 4.

MECHANICAL DRAWING ROOM, HAYES HALL

ART ROOM, HAYES HALL

ARCHITECTURE AND DRAWING

(Hayes Hall, Rooms 22, 23 and 24.)

PROFESSOR BRADFORD, ASSOCIATE PROFESSOR FRENCH, MR. LEWIS, MR. MARTIN, MR. VOSSKUEHLER.

29. **Freehand Drawing.** Three terms. Practice and occasional lectures. Practice in pencil, charcoal, pen drawing and color from models and plaster casts. Credit two hours. Tu., Th., 2 to 4.

10. **Mechanical Drawing.** Second term. Lectures and practice. Elementary mechanical drawings, lettering and working drawings. Credit three hours. Th., F., 1 to 4.

20. **Mechanical Drawing.** First term. Lectures and practice. Elementary mechanical drawing and lettering. Credit one and one-half hour. M., 1 to 4.

15. **Technical Drawing.** Second and three terms. Lectures and practice. House planning. This course preceded by Course 20. Credit one and one-half hours. M., 1 to 4.

16. **Technical Drawing.** Third term. Lectures and practice. Designing, preparing working drawings and specifications for structures related to agriculture. This course preceded by Course 10. Credit three hours. M., Tu., 1 to 4.

ART

An elective in Art offered by the Department of Drawing. Must be preceded by Course 29 in Drawing or its equivalent elsewhere.

17. **Practice and Occasional Lectures.** First term. Lectures on color standards, color theory, color harmony, color appearances, tone and graduation, atmosphere and values. Practice in color work, either water or oil color.

18. **Practice and Occasional Lectures.** Second term. Lectures on objects of art, ideas and subjects, style and individuality. Practice in water or oil painting from still life .

19. **Practice and Occasional Lectures.** Third term. Lectures will be a continuation of second term's work. Practice in water or oil painting from still life and nature or clay modeling.

The above is to be offered as an elective for two or three hours as follows: Lecture for one hour and practice for two or four hours as the student has time.

ASTRONOMY

(Emerson McMillin Observatory.)

PROFESSOR H. C. LORD, Director of the Observatory,
MR. J. WARREN SMITH, Special Lecturer on Meteorology,
MR. BENJAMIN F. MAAG, Assistant.

3. **Meteorology.** Third term. Lectures Thursday and Friday, 4-5 P. M., on practical meteorology, supplemented by laboratory work in map

BOTANICAL LABORATORY, BOTANICAL HALL

VIEW IN SEC. II, BOTANICAL GREENHOUSE

and chart making, and regular observations with the instruments used by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Credit two hours.

BACTERIOLOGY

(Veterinary Laboratory, Rooms 1c and 2c.)

ASSOCIATE PROFESSOR MORREY.

5. **General.** Three terms. First term, Morphology, preparation of media, culture and staining methods; second and third terms, special bacteriology along one of the following lines: (a) pathogenic bacteria; (b) agricultural; (c) dairy; (d) sanitary bacteriology and water examination; (e) bacterial chemistry, products of bacterial action, enzymes, ptomaines, toxins, etc. Credit four hours. Recitations, Tu., 11; laboratory, W., Th., 1 to 4.

2. **Bacteriology.** Second term. Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to dairy and other agricultural industries. Credit two hours. M., 9 and Tu., 9 to 11.

3. **Bacteriology.** Third term. Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to cooking and other domestic affairs. Credit two hours. Tu., Th., 9.

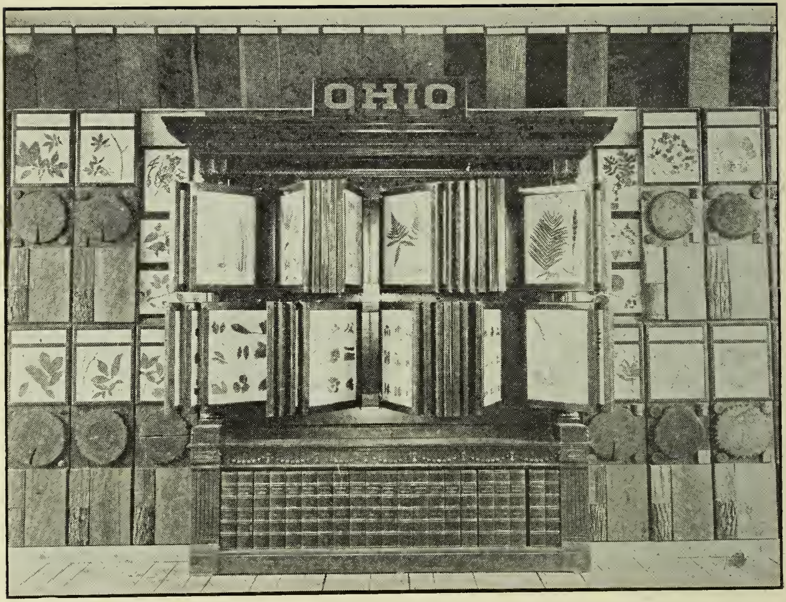
BOTANY

(Botanical Hall.)

PROFESSOR KELLERMAN, ASSOCIATE PROFESSOR SCHAFFNER, MR. JENNINGS, MISS BURR, FLORIST MCOWEN.

1. **Elementary Botany.** Third term. Text-book, Kellerman's Elementary Botany and Spring Flora. Instead of the Spring Flora, the students may use Britton's Manual. This is a general course introductory to those that follow. It comprises mostly Organography and Vegetable Physiology and a study of the native flora, but some instruction is also given in Ecology and Classification. For the practical or laboratory work, Kellerman's Practical Exercises is used as a guide. The students are required to do some work in the field in both observation and collecting. Credit five hours. M., Tu., Th., F., 9.

6. **Physiological Botany.** First term. Text-book, Coulter's Plant Studies. This is intended to be a complete course showing the evolution of plants from the lowest to the highest. Ecology and Physiology are the more prominent subjects, but some instruction is given in Morphology and Classification. The laboratory work includes a general course in histology with practice in experimental physiology. The student receives instruction and practice in handling the microscope and has the opportunity of learning much of the important modern methods in technique. Credit four hours. Tu., Th., 8 and M., W., 8 to 10.



A VIEW IN THE BOTANICAL MUSEUM

CENTRAL BED IN SEC. I, BOTANICAL GREENHOUSE

7. **Economic Botany.** Second term. This course is, in part, a continuation of Course 6, but the major part of the term is devoted to a botanical study of economic plants and the vegetable products of commerce. The laboratory work includes the microscopic study of fibers, starches, resins, gums and many other important vegetable products. Credit four hours. Tu., Th., 8 and M., W., 8 to 10.

8. **Vegetable Pathology.** Third term. The diseases of plants due to inorganic causes are briefly studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes up the latter part of the term some economic subject or group of parasites for special study. Credit four hours. Tu., Th., 8 and M., W., 8 to 10.

13. **Household Botany.** Third term. This course is planned exclusively for students in Domestic Economy, and is devoted to those phases which directly concern household work and home life. It includes a study of such economic species as culinary, medicinal, starch, oil and fiber-producing plants. Special attention is given to yeast, fermentations, enzymes, bacteria, antiseptics, fungicides, food-destroying fungi, and edible and poisonous mushrooms. Credit four hours. Recitations, Tu., Th., 11; laboratory, Tu., Th., 9 and M., 2 to 4.

17. **Forest Botany.** First term. This course is open to students who have completed Botany 6, 7 and 8 or 21, 22 and 23. It includes a special study of native and introduced trees and the preparation of a dendrological herbarium. Credit four hours. Lectures and Seminars, M., F., 10; laboratory and field work, Tu., Th., 2 to 4.

18. **Normal and Pathological Histology of Wood.** Second term. This is a continuation of Course 17 and includes a study of the development of wood, characters of coniferous, hard and soft woods and changes due to attacks of fungi. The students are required to prepare a series of gross and microscopic sections. Credit four hours. Seminars, F., 10; laboratory, M., Tu., Th., 2 to 4.

19. **Forest Ecology and Pathology.** Third term. This is a continuation of Course 18, and includes a study of the stem, leaf and root system in relation to the environment; of seed distribution and seedlings; and characteristics and distribution with reference to geological and physiographic, as well as other ecologic conditions. Students are required to prepare a pathological herbarium. Credit four hours. Lectures and seminars, M., F., 10; laboratory and field work, Tu., Th., 2 to 4.

9. **Dendrology.** First term. Lectures and field work. Kellerman's Forest Trees of Ohio and various reference books are used. The native trees are studied and illustrative collections made. Credit two hours.

10. **Dendrology.** Second term. Laboratory work and special investigations on the structure and diseases of timber. Credit two hours.

11. **Laboratory Work.** Three terms. Special investigations in Economic Botany and Vegetable Pathology. Credit two to five hours.

DOMESTIC SCIENCE LABORATORY, HAYES HALL

DINING ROOM, DEPARTMENT OF DOMESTIC ECONOMY, HAYES HALL

DOMESTIC ECONOMY

(Hayes Hall, Rooms 1, 3 and 10.)

PROFESSOR STONER, ASSOCIATE PROFESSOR SOUTHER.

DOMESTIC SCIENCE

1. **Food Economics.** First term. Lectures embracing a study of the evolution of society as affected by food conditions; second, a study of the food principles and their classification; third, the functions of the various foods; fourth, chemistry as applied in the study of the science of nutrition; fifth, the history and manufacture of food material, etc.; sixth, the care and use of ordinary utensils and furnishings. Parallel readings are required. Laboratory work includes experimental work with foods and the preparation and serving of typical foods of certain classes. Credit five hours. M., W., 9 and Tu., W., 1 to 4.

2. **Food Economics.** Second term. This includes a continuation of the subject outlined in Course 1, and marketing, table setting and serving By lecture and research work, the relative nutritive and money values of food are considered. Each student prepares a weekly dietary for the family. The amount expended is limited by the instructor. United States Agricultural Bulletin standards used. Parallel readings are required. Laboratory work is a continuation of Course 1. Credit five hours. M., W., 9 and Tu., W., 1 to 4.

3. **Advanced Food Economics.** Third term. This subject includes advanced work in Food Economics, general dietetics, high-grade work in the preparation of foods, and a brief study of the preservation of foods. Parallel readings are required. Credit five hours. M., W., 9 and Tu., W., 1 to 4.

4. (*a*) **Preservation of Foods.** One half term.

(*b*) **Hygiene of Clothing.** One half term.

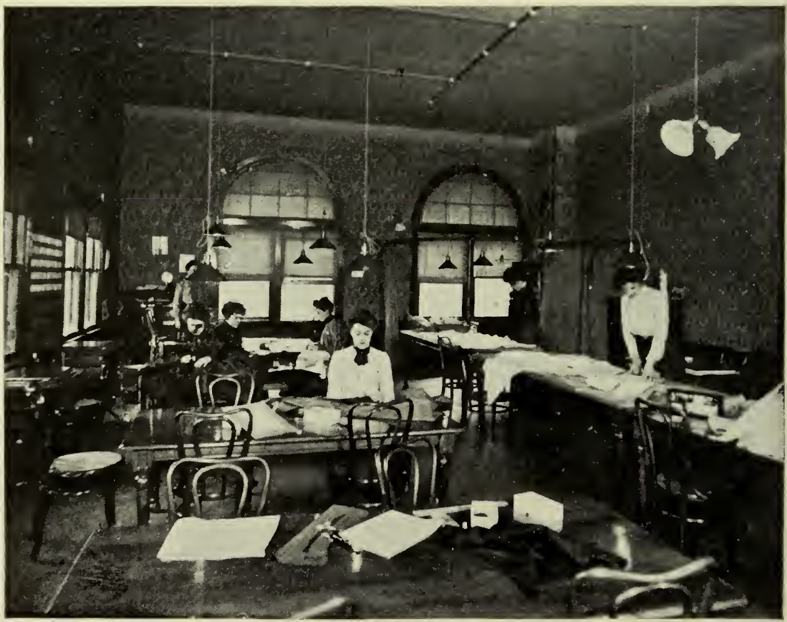
First term.

(*a*) Continuation of Course (3). Includes a brief study of the causes of decomposition; a history of the methods employed in the preservation of foods; the economic value of canned foods and the principles involved in canning, preserving, etc.

(*b*) Includes a study of the structure of fibers and their proper treatment; the properties and cleansing effects of water and soap; the effect of blueings, etc. Experimental work with chemical reagents for the treatment of all kinds of stains, etc., and the use of disinfectants and their properties. Lectures on hygienic clothing and the proper care of all kinds of house linens, etc. Demonstration work in practical laundry methods. Credit five hours. Tu., Th., 11 and Th., F., 1 to 4.

10. **Household Economics.** Third term. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement. A consideration of water supplies, sanitary drainage, care of plumbing, etc. Discussion of approved methods of the management of lighting, heating and ventilation systems. A study of the best practical and scientific methods of general household management. Furnishings

PRACTICUM BY STUDENTS IN DOMESTIC SCIENCE



DOMESTIC ART LABORATORY, HAYES HALL

of the home from the standpoint of utility, sanitation and economy. A study of household accounts and expenditures, etc. Credit two and one-half hours. Tu., Th., 9.

11. **Therapeutic Diet and Emergency Work.** Second term. The lectures, demonstrations and practical work are designed to set forth the principles of the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home, as well as the principles underlying good nursing. Food suitable for infants, invalids and convalescents is prepared in the laboratory work. Parallel readings are required. Credit two and one-half hours. Tu., 9 and Th., 1 to 4.

12. **Theory and Practice of Domestic Science.** Third term. Elective. This course is designed for young women who desire to take special professional training in Home Economics and who wish to study the educational, economic, scientific and practical principles involved in the application of those subjects in professional work. Parallel readings are required. Students electing this work must have completed courses 1, 2, 3, 4, 10 and 11. Credit five hours. M., F., 10 and Th., F., 1 to 4.

DOMESTIC ART

5. **Lectures on the Industrial and Artistic Evolution of Society.** Second term. History of the early races considered with special reference to the development in culture gained through hand-work. Practice work, preparation of a series of models comprising the different stitches used in plain hand sewing; darning, patching and ornamental stitches. Credit five hours. Recitations, Tu., Th., 11, and practice periods Th., F., 1 to 4.

6. **Lectures on Textiles.** Third term. Study of vetegable fibers; their growth and the processes of their manufacture. Comparative economic value of fabrics. Practice work; machine and hand work on underwear; drafting from simple measurements; use of patterns; making of simple straw hats and bows. Credit five hours. Tu., Th., 11 and Th., F., 1 to 4.

7. **Lectures on Textiles.** First term. Study of animal fibers; treatment of wool and silk fabrics; hygienic and artistic dress; consideration of line, form and color. Practice work: Costume designing in pencil and water color; drafting patterns by use of Tailoring System. Cutting and Fitting, Making of hat frames, covering and trimming the same. Credit four hours. M., 9 and Tu., W., 1 to 4.

8. **Lectures on History of Art and Architecture and Historic Costumes.** Second term. Practice work: Making of a lined waist; cutting and fitting of dress skirts. Credit four hours. M., 9 and Tu., W., 1 to 4.

9. **Lectures on Historic Art and on the Decoration of the House.** Third term. Practice work: Making of a tailored skirt and jacket or of a party wrap or tea gown. Credit four hours. M., 9 and Tu., W., 1 to 4.

Note. Pupils are required to furnish all materials. Individual instruction is given throughout, the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality are encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. Pupils taking a special or elective course and desiring to enter the class in dressmaking and designing, as given in the fall term, must have credits for such hand work as is done in Courses 5 and 6, and must take the lecture work of those courses, in the University. It is also essential to have had some practice in art work, both with pencil and water color.

ECONOMICS AND SOCIOLOGY

(University Hall, Rooms 17 and 18.)

Professor Clark, Assistant Professor Hagerty.

1. **Elements of Political Economy.** Three terms. A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. Credit three hours. M., W., F., 8 or 9. May be taken in connection with Courses 2, 3 and 4, and followed by 5, 6, 7 or 8, 9.

2. **The History of Industrial Society.** First term. A general view of the evolution of industrial society; involving a study of the manorial and guild systems; of the rise of class interests; the formation of trading companies; land-holding; labor laws; the development of capitalistic enterprise and the economic legislation, ideas and theories that grew out of these conditions; with special reference to England. Text-book, lectures and assigned readings. Courses 2, 3, 4 are open to all students of the University without preliminary requirements. M., W., F., 9.

3. **Industrial and Financial History of the United States.** Second term. A complete survey of American industries, financial resources and policies. The social aspects of the subject will be treated, in order to prepare the student for course 11 the following year. M., W., F., 9.

4. **Transportation.** Third term. A study of the development and present economic status of roads, canals and railroads in their relation to industry, society, and to the state. M., W., F., 9.

5. **Practical Problems: Immigration, Money, Land.** First term. Tu., Th., 9.

6. **Practical Problems: Railroads, Tariff, Crises.** Second term. Tu., Th., 9.

7. **Practical Problems: Of Labor and Capital.** Third term. Under the head of labor are discussed the problems of co-operation, profit sharing, strikes, eight-hour day, trade unions, etc. Under the head of capital are discussed the problems of municipal ownership of quasi-public utilities, trusts and capitalistic production. Tu., Th., 9.

8. **Public Finance and Taxation.** First and second terms. This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Tu., Th., 2.

9. **Money, Credit and Banking.** Third term. This course involves the history and theory of the subject, a comparative study of monetary systems, currency, etc., together with the various methods of banking; national banks; clearing house system, etc.; with a critical analysis of ministration throughout the world. Tu. and Th., 2.

These courses are specially adapted to students of advanced grade pursuing courses in the technical schools of the University.

EDUCATION

(University Hall, Rooms 51 and 54.)

Associate Professor Major, Dr. Haines.

1. **Educational Psychology.** Three terms. The aim of this course is to make a thorough study of laws and principles selected from psychological literature, which seem to bear upon educational theory and practice. Emphasis is laid upon the function of psychology in determining the selection and arrangement of school work, as well as upon its bearing on classroom procedure. The work of the first and second terms is based on James' "Talks on Psychology" supplemented by references to periodical literature and standard texts on psychology. The work of the third term will consist of a study of normal mental types, a description of the so-called stages of mental development, and special topics in mental pathology. Credit three hours. M., W., F., 11.

ENGLISH LITERATURE

(University Hall, Room 31.)

Professor Barrows.

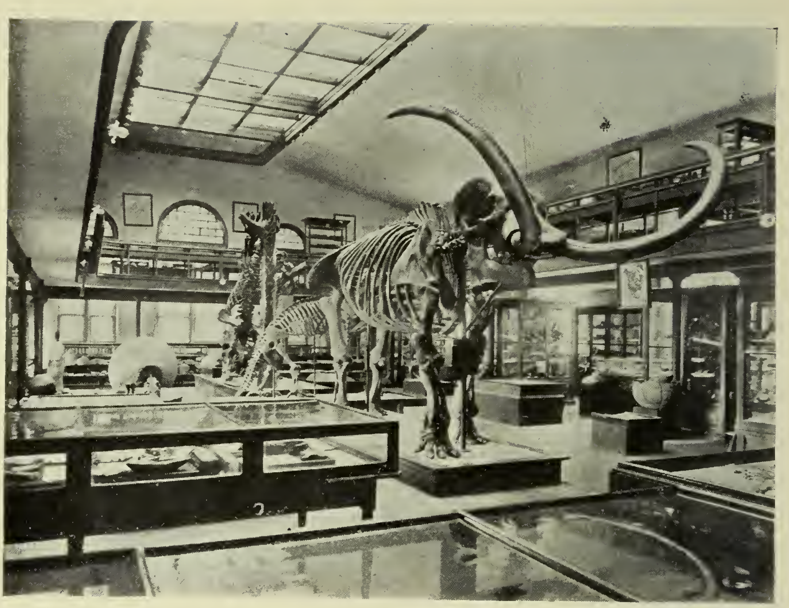
1. **An Introduction to English Literature.** Three terms. This course includes: (1) An outline of the history of English Literature. For this part of the work Scudder's "Introduction to the Study of English Literature," is covered by three examinations; (2) Lectures on the elements of literary analysis and interpretation; (3) Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. This part of the work will occupy most of the time in the recitation room. The book first used is Palgrave's "Golden Treasury." The texts of poets and prose writers studied in this course, outside of Palgrave's "Treasury," can be obtained of the department at a moderate charge. Credit three hours. M., W., F., 8 or 9.

GEOLOGY

(Orton Hall.)

Professor Prosser, Professor Bownocker.

2. **General Geology.** First term. Structural, historical and dynamical geology. In the laboratory, Dana's Manual of Geology, the Ohio Geological reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and



GEOLOGICAL MUSEUM, ORTON HALL

THE SPRING, OHIO STATE UNIVERSITY CAMPUS the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. Lectures and recitations, M., Tu., W., 11; laboratory, Th., 8 to 11; field work, S., 8 to 12.

5. **Applied Geology.** Second term. The common minerals and rocks composing the earth's crust, their disintegration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels, coal, oil, and gas. Building stones, limes and cements. Iron and the most useful metals. Credit three and one-half hours. Lectures, M., Tu., W., 8; laboratory, Th., 8.

1. **Physiography.** Third term. The topographic features of the earth s surface and the agencies producing these. The atmosphere, climate. etc. Oceans, rivers and lakes. Recitations, lectures and map work. Credit five hours. M., Tu., W., Th., F., 8.

GERMANIC LANGUAGES AND LITERATURES

(University Hall, Rooms 30 and 32.)

Professor Eggers, Associate Professor Mesloh, Mr. Eisenlohr, Miss Barrows.

1. **Elementary.** Three terms. Credit four hours. M., Tu., Th., F., 10 or 11.

2. **Science Reading.** Three terms. M., Tu., Th., F., 10 or 11.

4. **Intermediate German.** Three terms. Credit four hours. M., Tu., Th., F., 10 or 11. German 2, 9 or 10 may be elected by students who have finished previous courses, i. e., 1 or 1 and 4, respectively.

9. **Classical Drama and Prose.** Three terms. Three times a week.

10. **Modern Prose and Drama.** Three terms. Three times a week.

HISTORY

American History.

(University Hall, Rooms 27 and 48.)

Professor Knight, Assistant Professor Tuttle.

1. **Political History of the United States.** Three terms. Lectures, text-books and prescribed readings. Thwaites' The Colonies; Hart's Formation of the Union; Wilson's Division and Reunion. Three times a week throughout the year. The aim of this course is to give the student such knowledge of the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions. Credit three hours. M., W., F., 8 or 9.

HORTICULTURE

(Horticultural Hall.)

Professor Lazenby, Assistant Professor Davis.

1. **Elements of Horticulture.** First term. A study of the principles of plant growth and culture, including preparatory tillage, drainage, irriga-

WIND BREAK, HORTICULTURAL GROUNDS

STUDENTS JUDGING APPLES, DEPARTMENT OF HORTICULTURE tion, weeds, insects, etc., in their relation to horticultural crops. Credit four and one-half hours. Lectures and recitations, M., Tu., W., 9 or 11; laboratory or practicum, Th. or F., 1 to 4.

2. **Vegetable Forcing.** Second term. A study of the history and development of different types of plant houses, including methods of heating, ventilating and general management. Credit four and one-half hours. Lectures and recitations, M., Tu., W., 9 or 11; laboratory or practicum, Th. or F., 1 to 4.

3. **Plant Propagation.** Third term. The theory and practice of multiplying plants by seeds, layers, cuttings, grafts, and divisions; pruning and training, including both the theory and practice of the operations involved; spraying, history of the development and use of insecticides and fungicides, together with a study of the comparative merits of different remedies for particular insects and plant diseases. Credit four and one-half hours. Lectures and recitations, M., Tu., W., 9 or 11; laboratory or practicum, Th. or F., 1 to 4.

5. **Varieties of Cultivated Fruit.** First term. A study of history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food values. The judging and scoring of apples, pears, peaches, grapes, citrous and nut fruits. Credit four and one-half hours. Lectures and recitations, M., W., F. at 8; laboratory and practicum, W., 1 to 4.

6. **Principles of Fruit Culture.** Second term. A study of the location, tillage and fertilizing of orchards and gardens; the selection of varieties, laying out, planting and general management of fruit plantations, including diseases, insects and fungi; the use of insecticides and fungicides; harvesting, marketing, and storing fruit. Credit four and one-half hours. Lectures and recitations, M., Tu., Th. at 10; laboratory and practicum, W., 1 to 4.

14. **Olericulture.** Third term. Principles of home and truck gardening, including a study of the cultural, soil, climatic, and market conditions to be considered in relation to the various garden crops. Credit four and one-half hours. Lectures and recitations, M., Tu. Th. at 10; laboratory or practicum, W., 1 to 4.

8. **Elements of Floriculture.** First term. A study of the history, classification, general characteristics, propogation, and culture of ornamental plants, together with their uses for home and public grounds. Credit two and one-half hours. Lectures and recitations, Tu. at 8 or F. at 9; laboratory or practicum, M. or Tu., 1 to 4.

9. **Window Gardening.** Second term. Including the general management of house plants, the home conservatory, and the uses of flowers and plants for indoor decoration. Credit two and one-half hours. Lectures and recitations, Tu. at 8 or F. at 9; laboratory or practicum, M. or Tu., 1 to 4.

10. **Home Gardening.** Third term. The location, arrangement, planting and management of the kitchen garden, and the laying out and treatment of the ornamental grounds about the home. Credit two and

NEW METHOD OF FORCING RHUBARB, DEPARTMENT OF HORTICULTURE

STUDY OF CONSTRUCTION AND PRACTICAL WORK IN FORCING one-half hours. Lectures and recitations, Tu. at 8 or F. at 9; laboratory or practicum, M. or Tu., 1 to 4.

13. **Landscape Gardening.** Third term. A study of the art of producing picture-like or landscape effect; the making of lawns, walks, and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Credit two and one-half hours. Lectures and recitations, Th. at 8; practicum, F., 1 to 4.

11. **Elements of Forestry.** First term. Our native and introduced trees and shrubs treated individually and collectively; their use for timber, fuel, shelter, ornament, etc. Methods of propagation and culture. Credit five hours. Lectures and recitations, M., W. at 8; laboratory or practicum, M., F., 1 to 4.

12. **Forest Technology and Timber Physics.** Second term. The principles and methods of establishing, improving and managing woodlands; including the measurements and estimates of standing timber and harvesting of forest products; a study of the more important physical properties of wood. Credit five hours. Lectures and recitations, M., W. at 8; laboratory or practicum, M., F., 1 to 4.

15. **Forest Economics.** Third term. The economic features of modern forestry; the influence of forests upon climate, soils and crop production; forest valuation, protection, and administration; forest laws and forest policies; forestry conditions in Ohio and other states. Credit five hours. Lectures and recitations, M., W. at 8; laboratory or practicum, M., F., 1 to 4.

16. **Nature Study.** First term. A course intended primarily for those who are or expect to become teachers; treating of the objects and aims of nature study with lectures on some of the interesting things to be found everywhere about us, indicating how such material can be advantageously used by the teacher in class room work. Credit two and one-half hours. Lectures, recitations and practicum, M., W., 1 to 4.

17. **Plant Variation.** Second term. A course designed for those interested in plant breeding and in the modification and improvement of plants by mutation, crossing, dwarfing, forcing, etc., together with a discussion of the current theories of evolution as applied to the variation and amelioration of plants under cultivation. Credit two and one-half hours. Lectures and recitations, W. at 8; seminar or a laboratory period, Th., 1 to 4.

INDUSTRIAL ARTS AND SHOPWORK

(Hayes Hall, Rooms, 5, 6, 9, 12, 17 and 18.)

Professor Sanborn, Mr. Renck, Mr. Crowe.

Shopwork.

1. **Carpentry and Pattern Making.** Third term. Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, framing and other work involving the use of ordinary carpenter tools; center and chuck turning; the making of finished pat

THE CARPENTER SHOP, HAYES HALL

THE FORGE ROOM, HAYES HALL

terns; and enough elementary moulding to illustrate draft, parting, cores, etc. Credit three hours. Sec. I, M., Tu., 1 to 4; Sec. II, W., Th., 1 to 4; Sec. III, F., 1 to 4 and S., 8 to 11.

2. **Forging.** Second or third term. Exercises and practice in iron and steel forging, including such operations as cutting, bending, drawing, upsetting, shaping and welding iron, the making, hardening and tempering of steel punches, drills and cold chisels. Credit three hours. Sec. I, M., Tu., 1 to 4; Sec. II, W., Th., 1 to 4· Sec. III, F., 1 to 4 and S., 8 to 11.

MATHEMATICS

(University Hall, Room 45.)

PROFESSOR BOHANNAN, ASSOCIATE PROFESSOR McCOARD, MR. RASOR, MR. SKIMMING.

1. **Elementary Algebra.** First term. Venable. Credit five hours. M., Tu., W., Th., F., 8.

3*a*. **Plane Geometry.** Second term. Venable. Credit five hours. M., Tu., W., Th., F., 8.

MECHANICAL ENGINEERING

(Hayes Hall, Room 12.)

PROFESSOR MAGRUDER.

26. **Steam Machinery.** Second term. Lecture on the care of steam engines and boilers, pumps and injectors, and of ammonia refrigerating machinery. Course in Dairying. Credit one hour. F., 1.

MILITARY SCIENCE AND TACTICS

(The Gymnasium and Armory.)

CAPTAIN CONVERSE.

1. **Military Drill.** First and third terms. Required of all able-bodied men under twenty-five years of age during the first and second years of their course. M., Tu., W., Th., 4.

2. **Tactics.** Second term. Lectures and recitations. M., 4.

In addition to above, Military Department is open five days each week.

PHYSICAL EDUCATION

(The Gymnasium and Armory.)

PROFESSOR LINHART, ASSOCIATE PROFESSOR BERRYMAN, MR. HUDDLESON.

1. **Gymnasium.** Second term. Required of all young men during the first and second years of their course. M., Tu., W., Th., 4.

2. **Gymnasium.** Three terms. Required of all young women during the first year of their course. M., Tu., Th., F., 11.

3. **Gymnasium.** Three terms. Required of all young women during the second year of their course. M., Tu., Th., F., 10.

PHYSICS

(University Hall, Room 14.)

Professor Thomas, Assistant Professor Kester.

1. **Elementary Physics.** First and second terms. Recitations and experimental lectures. Text: Carhart & Chutes', "Elements of Physics." This course is required of students in the first year of the Short Courses in Agriculture and Domestic Science. Other courses in Physics may be elected by fourth year students in Agriculture. For description of such courses and of the equipment of the department, see general catalogue. Credit five hours. Sec. I, M., Tu., W., Th., F., 8; Sec. II, M., Tu., W., Th., F., 11

RHETORIC AND ENGLISH LANGUAGE

(University Hall, Rooms 38, 40, 42 and 55.)

Professor Denney, Assistant Professor Graves, Assistant Professor McKnight, Assistant Professor Dickinson.

1. **Paragraph Writing and Analysis of Prose.** Three terms. Credit two hours. Tu., Th., 10.

21. **Essentials of Oral Discourse.** Three terms. Credit one-half hour. Tu., 9.

2. **Expository Writing.** First term. Twice a week. Must be preceded by 1. Elective.

3. **Brief Making and Written Argumentation.** Second and third terms. Twice a week. Must be preceded by 1. Elective.

23. **Debates.** First and second terms. Two hours a week. Must be preceded by 3. Elective.

24. **Extempore Speaking.** Third term. Twice a week. Must be preceded by 23. Elective.

25. **Oratory.** Three terms. Twice a week. Must be preceded by 3. Elective.

10. **Advanced Composition.** (Individual work.) This course is designed for upper classmen who desire to continue practice in some one of the forms of composition studied in courses 1, 2, 3, or who seek criticism of work intended for publication in newspaper or magazine. Each student will meet the instructor at stated periods for criticism and assignments. Course 10 may be undertaken at the beginning of any term. Credit one hour, limited to three terms. Elective.

ROMANCE LANGUAGES AND LITERATURES

(University Hall, Rooms 34 and 35.)

Professor Bowen, Associate Professor Bruce, Assistant Professor Batchelder.

I. French.

1. **Elementary French.** Three terms. Grammar and reader, modern prose and plays. Grammar: Joynes' Minimum or Edgren's (Part 1), or Grandgent's Essentials, with written exercises. Reader: Super's (from Part 2), or Whitney's (Parts 1 and 2), or Laboulaye's Contes bleus. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. After the completion of the reader, historical and narrative prose works are taken up, followed by the study of one or more prose comedies. All the works read are taken from the nineteenth century literature. As the texts used vary from year to year, no special volumes or editions are here cited. Toward the close of the year, sight reading is emphasized.

Credit four hours. M., Tu., Th., F., 10 or 11.

2. **Modern French Literature.** Three terms. The study of the literature as such is now taken up. The work of the year covers a survey of two or more of the following subjects: (1) Contes and Historiettes; (2) The Novel (Balzac, Eugenic Grandet); (3) Lyric Poetry (Bowen's Modern French Lyrics); (4) Romantic Drama (Hugo). Prose Composition (Bouvet). Private reading is also required. The work is supplemented by lectures; these include a general survey of French literature from its beginning, with special lectures on Balzac, Victor Hugo, and the romantic drama. During the first half year one hour a week is also given to practical work (prose composition, conversation, study of syntax and idiom). This course is open to those who have completed Course 1 or who have received credit for French as an entrance subject. Credit four hours. M., Tu., Th., F., 10 or 11.

II. Spanish.

1. **Elementary Spanish.** Three terms. Grammar and reader; modern stories and plays; composition and conversation. Credit four hours. M., Tu., W., Th., 11.

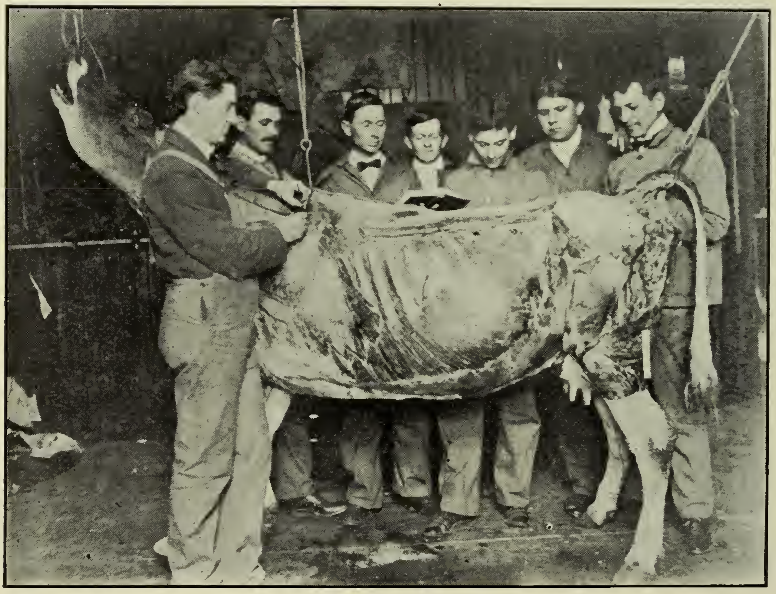
VETERINARY MEDICINE

Professor White, Professor Sisson.

28. **Veterinary Anatomy.** First term. Brief outline of the anatomy of the horse and ox. Credit four and one-half hours. Recitations M., Tu., W., 8. Demonstrations Th., 1 to 4.

29. **Veterinary Practice.** Second term. The more common diseases of a non-infective character, to which farm animals are subject.

NEW VETERINARY LABORATORY, OHIO STATE UNIVERSITY



A SQUAD OF STUDENTS DISSECTING, DEPARTMENT OF VETERINARY MEDICINE

Minor surgery, castration, and the principles of horseshoeing are included in this course. Credit four and one-half hours. Recitations M., Tu., Th., 10. Practicums Th., 1 to 4.

30. **Veterinary Practice.** Third term. The most common infectious and contagious diseases affecting farm and dairy animals, and the most scientific methods of preventing, dealing with and treating the same. Credit four and one-half hours. Recitations M., Tu., Th., 10. Practicums Th., 1 to 4.

17. **Diseases of the Cow.** Second term. Special course for students in Dairying. Lectures and demonstrations upon the following: (a) Anatomy of the cow with special references to the digestive, reproductive and milk-producing organs; (b) The more common non-infectious diseases of these organs and their treatment; (c) Most important infectious and contagious diseases and methods of preventing and dealing with them; (d) Practical methods of administering medicines, securing during operations, casting, etc. Credit three hours. W., Th., F., 9.

*ELECTIVES

Veterinary Medicine (11, 12, 13) 5. (Anatomy) First, second and third terms. Veterinary Medicine (14, 15, 16). (General Pathology and Theory and Practice). Five times a week throughout the year. This Course should be preceded by Veterinary Medicine (11, 12, 13) 5 and by Physiology (14) 3. Veterinary Medicine (19) 3. (Horse, Cattle and Dog Clinic in the Veterinary Hospital). Daily, 2 to 4. Saturdays, 10 to 12. First, second and third terms. Veterinary Medicine (21, 22) 3. (Infectious and contagious diseases). First and second terms. Veterinary Medicine (23) 3. (Obstetrics). Second term. Veterinary Medicine (26) 3. (Principles of Horseshoeing). Third term.

ZOOLOGY AND ENTOMOLOGY

(Biological Hall, Rooms 3, 4, 7, 8 and 9.)

Professor Osborn, Associate Professor Hine, Associate Professor Landacre.

1. **Invertebrate and Vertebrate.** Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domestic species. Credit three and one-half hours.

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*Although the above are especially recommended, agricultural students who have had Anatomy and Physiology may elect any subject taught in the College of Veterinary Medicine.

ZOOLOGICAL MUSEUM, BIOLOGICAL HALL

ENTOMOLOGICAL LABORATORY, BIOLOGICAL HALL

Lectures and recitations M., F., 10, or Tu., Th., 8. Laboratory, first and third terms, Sec. I, F., 1 to 4; Sec. II, Tu., 1 to 4; Sec. III, Th., 1 to 4. Second term, Sec. I, W., 1 to 4; Sec. II, Tu., 1 to 4; Sec. III, M., 1 to 4.

3. **Economic Entomology.** Third term. Insects of forest, orchard and garden. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc. Credit two and one-half hours.

Lectures and recitations Th. 9. Laboratory Th., 1 to 4.

4. **Economic Entomology.** Three terms. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy. Credit two and one-half hours.

Recitations and lectures F., 9. Laboratory, first and third terms, F., 1 to 4. Winter term Tu., 8 to 11.

5. **Economic Entomology.** First term. Insects of the household. Discussions of the different insects of importance in the household as injurious to food materials, clothing, carpets, draperies, etc. Fourth year; course in Domestic Science. Credit three hours. Tu., W., Th., 9.

7. **Systematic and Practical Entomology.** Third term. Two lectures and one laboratory period a week. An elementary practical course for students in the Short Course in Agriculture.

8. **Parasites of Domestic Animals.** First term. A lecture course devoted to the principal parasites affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Credit one hour. Elective. Time arranged.

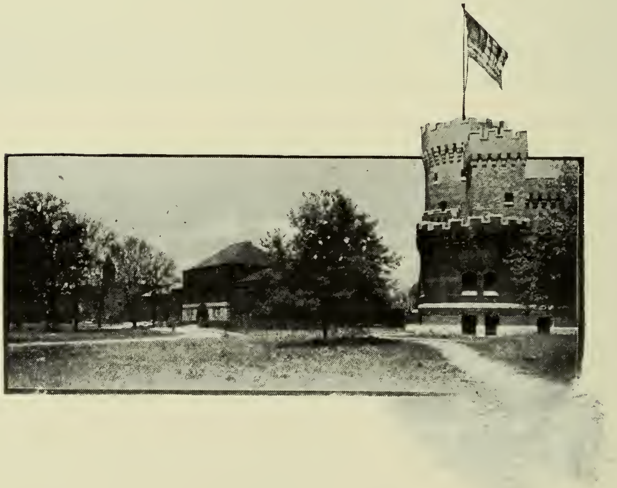
9. **Special Entomology.** First term. Studies of life histories, collection and classification in selected groups. Field work and lectures. Credit four hours. Elective. Time arranged.

10. **Special Entomology.** Second term. Studies of winter condition of insects. Insecticides, insecticide machinery, methods of preparing insect illustrations, greenhouse pests, etc. Credit four hours. Elective. Time arranged.

11. **Special Entomology.** Third term. Investigations of selected groups or species. Lectures on insect legislation, distribution, natural enemies, special methods of control, etc. Credit four hours. Elective. Time arranged.

Courses 9, 10 and 11 are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.

26. **Zoological Seminar.** Three terms. Discussion of recent literature in Zoology and Entomology, reviews of progress in certain lines of investigation and presentation of results of research studies. Advanced students in Zoology and Entomology are expected to elect this course and it is open to others who have had preliminary courses. Credit one hour. Th., 4.



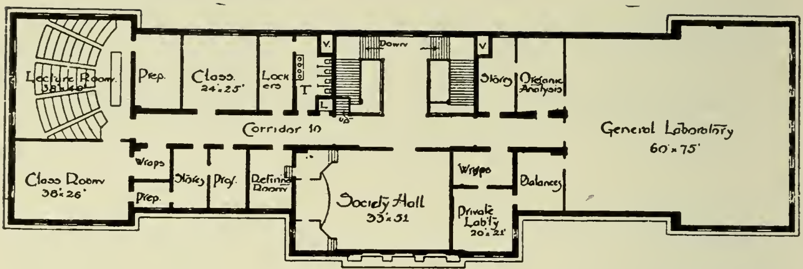
EQUIPMENT AND FACILITIES FOR INSTRUCTION

Agriculture. This department is located in Townshend Hall, headquarters for the College of Agriculture and Domestic Science, which was completed in 1898 at a cost of $100,000. This agricultural building is named after that illustrious pioneer in "education for agriculture," the late Dr. N. S. Townshend, who for twenty-five years was professor of agriculture in the Ohio State University, and who, in 1854, associated himself with James Dascomb, John S. Newberry, and James H. Fairchild, in establishing the "Ohio Agricultural College" at Oberlin. Townshend Hall is a memorial to his public services and his work in advancing the cause of agricultural education.

Townshend Hall is 260 feet long, and varies in width from 64 to 78 feet. It contains two stories, and a basement which is fourteen feet high, making the building practically three stories high. The walls above the basement line are of gray pressed brick. The basement walls and the front entrance are of Bedford, Indiana, Oilotic limestone and the trimmings are of terra cotta of the same color as the brick. The roof is of dark red tile.

The building is of slow burning construction throughout, with painted interior brick walls, exposed beams, maple floors, and hard pine finish. Throughout the dairy department, which has about 6,000 square feet of floor space, the floors are of tile and the walls enameled brick. The floor plans on the page opposite show the arrangement of offices, class rooms and laboratories.

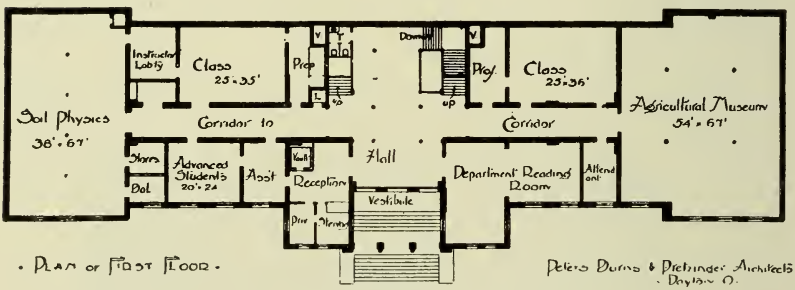
The department is supplied with apparatus for studying the effect of grade angle, height of obstruction, height of hitch, size of wheel and weight of load on draft of wagons. A large model shows correct and incorrect methods of making and using the doubletree. A wooden model demonstrates the effect of high and low hitch and width of hock on the pulling capacity of the horse. A self-registering dynamometer is used to determine the draft of vehicles and farm implements under varying conditions, a number of implements being kept for this special purpose. Drainage levels are used in leveling and laying out tile drains. The agricultural museum contains many of the latest patterns of farm machinery, including self binders and mowers from all the leading manufacturers. In the study of soils, the large glass house with its equipment of railroad tracks, trucks and pots affords opportunity for the student to test the adaptability of crops to various soils; the fertilizer re-



Peters, Burns & Pretzinger, Architects.
— Dayton O. —

• Plan of Second Floor •

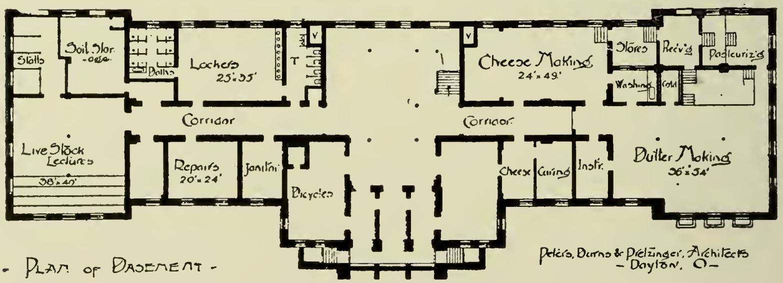
• Townshend Hall • Ohio State University •



• Plan of First Floor •

Peters Burns & Pretzinger Architects
• Dayton O.

• Townshend Hall • Ohio State University •



• Plan of Basement •

Peters, Burns & Pretzinger, Architects
— Dayton, O. —

Townshend Hall • Ohio State University •

quirements of soils and to experiment on various other problems of crop growth. The soil physics laboratory is supplied with apparatus for studying the specific gravity of soils; volume weight of soils; power of loose soil to retain moisture; power of compact soil to retain moisture; rate of flow of air through soils; rate of percolation of water through soils; effect of mulches on evaporation of water from soils; effect of cultivation on evaporation of water from soils; power of dry soil to absorb moisture from air; and the capillary rise of water through soils. Mechanical analyses are also made of typical soils.

In the study of crops, large use is made of the collection of dried specimens of grasses, grains and seeds. The grass garden contains about twenty-five varieties of grasses and clovers, growing side by side where comparisons may be made as to the value of each for pasture, meadow and hay. The farm is visited frequently by the students who make observations and studies of the practical methods there employed in the growing of crops and in the feeding and management of live stock. The live stock judging room is supplied with implements for precise measurement of animals and with score cards of all the different types of domestic animals. The students are here given opportunity to study every detail of conformation. The animals used are selected from the University farm or are contributed from time to time by the breeders of the state. Some of the best animals of their kind in the state have been brought here for the students to study. Numerous excursions are also made to the farms of leading breeders, both for the purpose of studying types and methods. The class room is provided with a stereopticon and a large collection of carefully selected lantern slides of the leading individuals of several breeds of live stock. The herd books of the several breeds are made use of in familiarizing the students in methods of tracing pedigrees and the practices of breeders' associations.

The dairy laboratory has one of the finest equipments in the country. In the spacious creamery room are a dozen different styles and sizes of cream separators and the student is enabled to obtain a thorough knowledge of the mechanism and efficiency of this class of machinery. There are also half a dozen styles of churns and butter workers of different types including some of the latest inventions. A number of hand power and steam turbine milk testers are supplied for testing milk and the products therefrom. The work of the student in this part of the dairy laboratory is checked up each day by means of eleven different report blanks, which the students are required to fill out and hand to the instructors in charge. The room in which the bottling, and pasteurizing of milk and cream is carried on is an exceptionally fine one. In it are vats, wash-sinks, separator, two stvles of pasteurizing machinery, bottling apparatus and a large steam sterilizing oven. The cheese department has the use of spacious, well-lighted, making room and curing rooms. In the equipment are vats, three styles of presses, curdmills, etc., for the manufacture of Cheddar cheese, and the necessary apparatus for making brick and Edam cheese. Students in this part of the work make daily reports on five different forms of blanks. In an adjoining power house are found a boiler, two engines, pumps, and refrigerating machinery, which are operated by students under the direction of an instructor. The student is taught to make the best possible product with the least loss of raw material, and to handle the machinery carefully. Important points in the work are drawn out in the class rooms by means of lectures, recitations and written examinations.

Agricultural Chemistry. The department of agricultural chemistry occupies the greater part of the second floor of Townshend Hall. The main students' laboratory is at present fitted up with one hundred and fifty desks, and will accommodate over two hundred students. Each desk contains a complete outfit of apparatus and chemicals necessary for the work in hand. The outfit in each desk is secured by combination locks. Special apparatus and chemicals are supplied from the store room. Each desk is supplied with gas and water. Hoods for evaporation and generation of noxious gases and liquids are conveniently arranged on both sides and one end of the laboratory. From the main laboratory, easy access is had to the balance room and private laboratory of instructor on one side and to the organic analysis and assistant's room and store room on the other. A room entirely detached from the main laboratory is fitted up for water analysis and for the polariscopic determination of sugar. The lecture room is capable of seating one hundred and fifty students. In connection with it is a preparation room, which is supplied with the necessary apparatus and specimens for illustrating the lectures. This floor also contains a resting room and a toilet room for young women.

Bacteriology. Bacteria are first studied in a general way and in their general relationship to man and his surroundings. Then is taken up a more specific study of their influence and work in soils, in higher plant growth and in animal life, together with their important and manifold performances in milk, butter and cheese. In the laboratory is taught the preparation of culture media, the methods of study for bacteria, the isolation of pure cultures and the numerical examination of water, milk and air. The department of bacteriology will have in the new Veterinary Building two laboratory rooms, a private laboratory, two incubator rooms, a room for healthy and one for inoculated animals, incubators, sterilizers, microscopes and necessary apparatus for about thirty students working at one time.

Botany. The department offers good facilities for instruction and investigation. The Botanical Building contains a large lecture room, museum, herbarium, three laboratory rooms, dark room, drying room, store room and offices. A large number of charts, many of them lithographic, photographs and mounted illustrative specimens are the other principal appliances for daily class work. In the lecture room are placed fifteen of the more important popular journals of Botany for the use of students. The botanical books in the University Library, a valuable and growing collection, are largely used for reference in connection with the several courses. The museum contains a large amount of illustrative material; the native medicinal plants and the collection of Ohio woods being very complete. The State Herbarium consists of between fifteen and twenty thousand sheets of Ohio plants. The general herbarium is much larger. Professor Kellerman's private herbarium of over twenty thousand specimens of parasitic fungi, is also used by the Department. The large laboratory is well equipped with dissecting and compound microscopes; also the usual appliances for doing both elementary and advanced histological work. One of the small laboratories is devoted to experimental work in vegetable physiology and the other to systematic Botany. The green house attached to the Botanical Building is an important adjunct to the department. There are four sections containing a total of nearly 3,000 feet of glass. It contains a large number of illustrative plants, about 3,000 specimens representing the principal plant families and belonging to several hundred species. The green-house furnishes much fresh material for laboratory use. It is also used as a laboratory to carry on special work when growing plants are used.

Domestic Science. The periods devoted specifically to the study of Domestic Science are quite fully outlined in the preceding pages and it seems unnecessary to elaborate here. Sufficient to say that the course aims to supplement the work of other departments and to apply it to practical home life. The study of Botany, Zoology, Chemistry, Physiology and Bacteriology makes it possible for the student to understand the functions of various organisms and to appreciate the changes constantly occurring in plants and animals. The needs of the body in a superficial way have long been taught, but it is imperative that every one who attempts to maintain life at its best, should know definitely what is required for a human being and how to provide it. A woman should be conversant with the food principles, know where they are to be found, in how large proportions they should be supplied, how they are best prepared for consumption and the effect of each in the body. In a general way she should be able to analyze disease and be prepared to guard against it. Again, sociology has an especial bearing upon home life; the personal assistance given to individuals, either in the home or by means of charities, is largely delegated to women and they might accomplish far more for humanity if they gave less outright and were prepared to teach the dependents better means of helping themselves. Industrial activities demand consideration. The consumptive side of economics is as important as the productive side and belongs to women. They should know absolute values, from every standpoint, and how to apply scientific knowledge in the affairs of everyday life, and this knowledge does not come by studying text-books, but by actually dealing with things. The home is founded on and protected by sanitary and hygienic laws and the mastery of them is quite within the province of every woman, when competent teachers are prepared to expound them. Their study is of no less interest than that of other sciences and every science and art is made more vital and more fascinating by a knowledge of some definite way in which it may be applied.

The educative value of Domestic Science has been satisfactorily proved. It aids the student to observe, to reason, to work accurately and how to carry on scientific research relating to the improvement of home culture, in all phases of life. It provides a way to meet the demand for an ideal system of education for women; for more complete and appreciative living, for more adequate cultivation of body, mind and soul, the main object of all education.

Domestic Art. The object of this course is to give the student an insight into that cultural development of the race which has been gained through handwork. The work is taken up along advanced educational lines; the value of manual training is emphasized and an effort is made continually to correlate the subjects taught in the Department of Domestic Art with other college work, such as History, Botany, Literature, Anthropology, Sociology, Economics, Drawing, etc. It is felt that too much stress cannot be laid upon the development of character as gained through manual training, and besides giving that deftness of hand which is a needed accomplishment with every woman. It is believed that that education is incomplete which fails to develop the native artistic abilities of the pupil and give to her a training in ways and means of usefulness which shall make her succeed when she enters the world as home maker or wage earner. Too many women are useless drones in society, burdens in the home or the world at large because they have so few resources; they have not learned to adapt knowledge or to work out with their hands the useful and artistic ideas held in the mind. Emerson says: "The creation of beauty is art, and the love of beauty is taste." To develop good taste, is to insure homes of taste, and this implies architectural beauty of the house proper, artistic decoration of the interior and harmonious dressing of the inmates. Manifestly this involves the study of a number of subjects, all of which bear more or less directly upon the Domestic Arts. Taking as our ideal the thoroughly rounded character, the well developed woman physically, mentally and morallv, we must add to all other knowledge those touches of grace, given, perhaps more especially than by any other lines of study, through a study of Art. It is through Art study that we come to appreciate beauty in line, form and color by applied work, following the recognized principles of the best artists we are able to develop originality and skill in ourselves.

Drawing. The Department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for practical training in the same:

For freehand drawing, water color and oil painting:—A large studio, thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster casts of ornaments, flowers, fruit and the antique, and materials for "still life."

For clay-modeling:—A specially arranged and equipped studio, twenty-six by thirty-two feet, for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds, and lockers.

For mechanical drawing and mechanical architectural designing:—A large, well-lighted room, forty by eighty-five feet, provided with O. S. U. drawing tables (30 by 36-inch tops), a set of Schroeder models, a collection of shop drawings and facilities for blue printing.

For photography:—A well arranged and equipped dark room, printing apparatus, copying cameras, seven view cameras, lenses of long and short focus, telephotographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well-selected collection of books pertaining to the work of the Department.

Geology. The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geographical survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. Orton Hall, completed at a cost of more than $100,000, is designed for the permanent accommodation of the large geological collection of the University and for the work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room; at the left is the University library and reading room. The central and rear portion is occupied by the geological and paleontological museums. In the basement the economic museum is located. On the second floor is located the stratigraphical and petrographical laboratories.

Horticulture and Forestry. This department has under its immediate control about twenty-five acres of land. About one-half of this area has been planted with numerous varieties of cultivated fruits. The remainder is devoted to market gardening. Students have an opportunity of observing all the operations carried on from the sowing of the seed and transplanting, to the harvesting and marketing of the crop. Among the facilities for instruction and illustration that deserve special notice are two vegetable forcing houses with packing rooms, tool rooms, etc. These houses are attached to Horticultural Hall, and are each one hundred and twenty feet long by twenty in width. They are heated by hot water. One interesting feature in the management of the forcing houses is the method of watering by sub-irrigation. This method had its origin in these houses and marks a great step in advance in green-house management. Lettuce, radishes, cucumbers, parsley, cauliflower, onions, rhubarb, asparagus and other vegetables are grown in the forcing houses during the college year. Among the additional facilities provided for the illustration of the different courses in the department, and for practical training in the same are (1) orchards, containing well selected varieties of apple, pear, plum, cherry and quince; (2) a small vineyard, containing some of the standard varieties of grape; (3) small fruit plantations, stocked with some of the best varieties of strawberry, raspberry, blackberry, currant and gooseberry; (4) large vegetable gardens, with pipe-heated hot-beds, cold frames, conveniences for irrigation, experimental plats, etc.; (5) a small nursery and forest tree plantation, with practice rows for budding, grafting, pruning and training; (6) ornamental grounds and native woodland, containing a large variety of evergreen and deciduous trees and shrubs; (7) a green-house, with an extensive collection of exotic plants; (8) a collection of seeds, woods and other preserved natural specimens; (9) a collection of fruit in jars, also models of apples, etc.; (10) a laboratory well equipped with dry ovens, balances, seed testers, and other appliances for study and research; (11) a collection of horticultural hand tools for budding, grafting, pruning, etc.; (12) a small apiary of a dozen or more colonies of bees.

Mechanical Engineering. The Mechanical Engineering Laboratory contains a large collection of steam and gas engines, steam and power pumps, engineering instruments and apparatus, models of machinery, and samples of engineering supplies which are instructive and are open to the inspection of the students in Agriculture and Dairying.

Physics. The Department of Physics occupies the west half of the first and second floors and basement of University Hall. The equipment allows full experimental illustration and a wide range of individual work by the student in the laboratory.

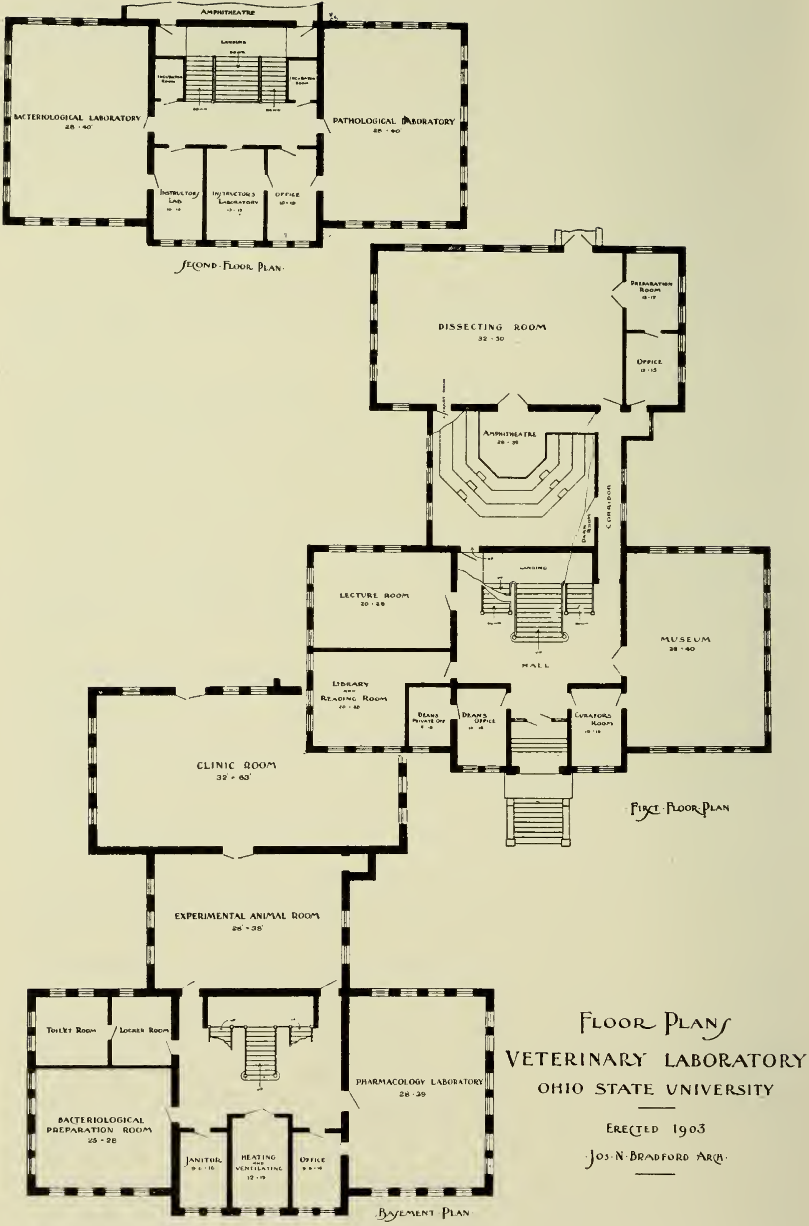
Physiology. Instruction in this subject is given by lectures, demonstrations and recitations. Incidental to the main work, so much of anatomy and histology is given as will render the processes going on in the living body comprehensible. A limited amount of laboratory work is introduced during the course so that the student may personally familiarize himself with the actual appearance of things discussed in the class room. The equipment for teaching and demonstrating in this department consists of numerous Azoux and other models, charts, physiological apparatus, skeletons, microscopes and other accessories ample to meet all requirements for thorough instruction.

Romance Languages. The department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps, including map of Paris; illustrated volumes showing the various phases of the arts and sciences, costumes and manners, public instruction, dramatic representation, etc., in France at different epochs; large photographs and engravings of the principal French writers; collections of French prose extracts for use in sight reading.

Shopwork. The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making and forging. The carpenter and pattern shops are equipped with twenty-five benches with complete sets of carpenter tools for each, a large number of special tools for general use, twenty-four pattern makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz planer, a circular rip and cross-cut saw, a scroll saw, a band saw, a trimmer and power grindstone. The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot power hammer, a blacksmith's drill and punch, shear and bar cutter. The blast for forges is furnished through underground piping by a 45-inch Buffalo pressure blower, and the smoke is removed by a 55-inch Buffalo exhaust fan overhead. Both of these fans are driven by a 15 horsepower electric motor.

Veterinary Medicine. Students in Agriculture taking required or elective work in veterinary medicine can avail themselves of the whole equipment of the College of Veterinary Medicine. For class room work a large number of papier-machè models, wet and dry anatomical specimens, sample horseshoes, charts, diagrams and drawings, surgical instruments and apparatus are constantly employed to supplement text-book teaching in all classes. The Veterinary Hospital, a plain brick building, affords excellent facilities for the care and treatment of diseased and injured animals, giving the students an opportunity to become familiar with and learn practically the maladies to which domesticated animals are subject. It contains box stalls, stalls for cold water application, a large and well-lighted operating hall and two special wards for smaller animals. A drug dispensary and office with telephone are on the first floor front of the building. The upper floor is occupied by the house surgeon. The free clinic is held for two hours daily (Saturday included) at this building. During the clinic hours agricultural students taking Veterinary Medicine (29 and 30) and those electing Veterinary Medicine (19), are required to assist the instructors in all surgical operations (castration, spaying, examination for lameness, dental work, etc.), and to administer all medicines to sick animals, under the direction of the hospital staff. Inasmuch as from 1000 to 1500 animals are treated annually at this clinic, the students have ample opportunity to learn in a practical way the best methods of treating diseased and injured stock. A herd of fifty cattle, a drove of hogs, and several horses kept on the University farm furnish clinical material during the college year. The dairy herd is tested with tuberculin once a year, to determine if tuberculosis be present. The students conduct this test, under direction of the veterinary instructors, thus learning by actual doing, the modern method of diagnosing latent cases of bovine tuberculosis.

The new Veterinary Laboratory Building, now being constructed, will be completed in time for the opening of the University next fall. With equipment it will cost in the neighborhood of $50,000. It is especially designed for the teaching of Veterinary Medicine and will be adequate in every particular. It is constructed of buff colored brick, windows of plate glass and roof of tile. It will contain the Veterinary Museum, probably the largest in the country, a modern sanitary dissecting



FLOOR PLANS
VETERINARY LABORATORY
OHIO STATE UNIVERSITY

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room, and amphitheatre seating 125 students, a reading room, class rooms and laboratories for Anatomy, Pharmacology, Pathology and Bacteriology, offices, etc. For perspective and floor plans of this building, see pages 58 and 72.

Zoology and Entomology. Work in this department is largely on the laboratory plan, the effort being to have each student become familiar with typical forms of animal life, acquire the power to discover facts for himself and use them in practical applications. Animals that have an important economic relation are used as examples for their respective groups. While the aim is to give a thorough and sound training in the underlying principles of Zoology and Entomology, the practical bearing of these is shown by use of such forms as the liver fluke of sheep to show effects and relations of parasitism, the earthworm in its relation to soil formation, trichina as affecting human health and meat exports, insects, both useful and injurious, fishes as a source of food, relation of birds to insect control and importance of certain groups of birds and mammals as the source of our domestic animals. Advanced and graduate courses provide for training in methods of research and especial attention is given to preparation for investigation as experiment station workers in Entomology or Zoology. The adjacent fields, wood, lake and river along with various well equipped laboratories, museum and department library give abundant opportunity for study. The collections of skeletons, birds and insects are especially rich. The department occupies the first and third floors and part of basement in the Biological Hall and is well provided with laboratory rooms and space for special lines of work. The Lake Laboratory maintained at Sandusky and open from June 15 to September 15 offers courses of instruction and exceptional opportunities for original research in Entomology and Ichthyology. Particulars regarding it may be had by applying for special circular.

Library. The University Library is a well selected collection of 50,000 volumes. The character of the collection is high and the students in all departments of University work find it an excellent working library. The books occupy the first, main, and balcony floors of the east end of Orton Hall and on each floor is to be found reading room space with comfortable chairs and tables. The shelves are all open, each student having the privilege of going directly to them, thus gaining familiarity with books which is a source of power the value of which can scarcely be estimated. The students are not thrown entirely on their own resources however, the reference assistants being always ready to help a student in looking up his subject and also to instruct him in the best methods of using the books for himself. The library is gradually accumulating sets of scientific serials and transactions which are of the greatest value. Its periodical list at present numbers 353 titles. The students in the College of Agriculture and Domestic Science have in some respects especially excellent library facilities. The majority of the books bearing on their work are to be found in the General Library, but there is also in Townshend Hall a special department library and reading room. In the General Library are approximately complete sets of Agricultural Reports of all the states, and of the bulletins of the experiment stations and of the United States Department of Agriculture. In addition there is a good collection of general works and of periodicals treating of agriculture and its applied subjects. In the Department Library are kept the herd books, duplicate sets of United States Agricultural Reports, and Ohio Agricultural Reports, and a large number of papers. These the students can often read between classes, when there is not time to go to the General Library.

A GLIMPSE OF THE CAMPUS

ADMISSION, ATTENDANCE AND GRADUATION

The entrance examinations for 1903 will be held on Monday, September 21.

Applicants for admission to the College of Agriculture and Domestic Science must be provided with credentials of scholarship from their last instructors, or from the last institution with which they have been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of colleges of approved standing and of normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank, or standing in it. A copy of the course of study should accompany the certificate, and both should be sent to the University not later than the first of September. The University cannot promise this recognition to certificates presented during the entrance week.

Blank certificates will be furnished on application.

Applicants for admission who come from other colleges or universities, are required to bring certificates of honorable dismission.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain high schools of the State; and the graduates of these high schools are admitted on presentation of cards issued to them at their graduation through their principals.

3. All other applicants are subject to examination on the group of studies mentioned below.

Full equivalents for text-books named will be accepted.

REQUIREMENTS FOR ADMISSION TO FOUR YEAR COURSES

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.* Physical Geography, one unit; United States History, one unit.

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be

the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, *or equivalents:* Shakespeare's *Merchant of Venice, Julius Caesar, and Macbeth;* Milton's *Lycidas, Comus L'Allegro* and *Il Penseroso;* Burke's *Conciliation with the Colonies;* Macaulay's *Essays on Milton and Addison;* The Sir Roger de Coverly Papers in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.* English Composition and Rhetoric, two units; English Classics, one unit.

3. *Algebra*—Taylor's Academic or equivalent. Two units.

4. *Plane Geometry*—Venable, Wentworth, White or Wells, or equivalent. One unit.

5. *Botany*—Gray or Kellerman's Botany or Flora, or equivalent. One unit.

6. *Physics*—Gage, Carhart and Chute, Avery or Appleton, or equivalent. Two units.

7. *Civil Government*—Fiske or Thorpe preferred. One unit.

8. *History*—Meyer's *General History,* or equivalent. One unit.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *Le Bello Gallico.* Three units.

Or French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included. Three units.

Or German—Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalent must have been read (not less than 300 pages).

Joynes' or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit Freytag, Die Volerne Handschrift, Gerstäcker Irrfahrten. Three units.

For the present, the *German or French* required for admission may be begun at the University, but without University credits. A student may enter with conditions, amounting to three units, not counting German or French.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture. See page 19. Students may prepare in these subjects for entrance to the four year courses by entering the Short Course in Agriculture.

REQUIREMENTS FOR SHORT COURSE IN DOMESTIC SCIENCE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*
2. *English*—(*a*) Composition and Rhetoric; (*b*) English Classics.
3. *Algebra.*
4. *Plane Geometry.*
7. *Civil Government.*
8. *General History.*

ADMISSION TO THE SHORT COURSE IN AGRICULTURE AND THE COURSE IN DAIRYING

Applicants unless over twenty-one, must pass an examination in *Arithmetic, Geography, Grammar* and *United States History,* or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Courses may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions.

1. The regular entrance requirements must be satisfied.

But applicants who are not less than twenty-one years of age, after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the Faculty to any class in the College; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for degrees, he shall take the omitted entrance examinations at least two years before the degree is conferred.

2. On entering the College, students desiring to pursue special work are required to lay before the Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other university or college must first obtain admission in the manner already described. They will then be examined on the undergraduate studies for which they ask credit.

2. Applicants who come from the collegiate department of an approved college, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismission, will be admitted without examination, except such as may be necessary to determine what credit they are to receive here for the work done in the college from which they come.

REGISTRATION

All students are required to register and pay their term fees on or before the first day of each term, between the hours of 8:00 a. m. and 12 m., or between 1:00 and 4:00 p. m., central standard time.

Former students who fail to register as above will be charged one dollar in addition to the usual incidental fee, for the first day of delinquency, and fifty cents additional for each subsequent day.

No candidate for graduation will be permitted to register for the second term of his graduating year, except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

AMOUNT OF WORK

No student is permitted to take less than fifteen credit hours a week of any sort of work, except by special permission, and no student will be permitted to take more than the regular work of the class to which he belongs, who has not passed all his work for the preceding term. A credit hour means one hour class room work in lecture, recitation or quiz, or two hours of laboratory work.

ELECTIVE STUDIES

All elections of work in continuous studies, when once made, are understood to be made for the entire collegiate year.

The right is reserved to each professor to withdraw the offer of any elective study when it is not chosen by at least four persons.

EXAMINATION AND STANDINGS

At the close of any term a student failing to pass in two-thirds of his work will be considered on probation; and a second similar failure will forfeit his connection with the University.

THESIS

As requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than December 14th of the fourth year; and the completed thesis must be presented in duplicate, on standard paper of certain size and quality, typewritten, bound, and titled, not later than the second Saturday before Commencement Day.

DEGREES

The degree of Bachelor of Science in Agriculture is conferred on students who have completed the Course in Agriculture; that of Bachelor of Science in Horticulture and Forestry upon those who have completed the Course in Horticulture and Forestry; and that of Bachelor of Science in Domestic Science upon those who have completed the course in Domestic Science. Master degrees are conferred upon graduates of these courses at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved Course of study in the University. Each candidate is required in addition to present an acceptable thesis upon some subject connected with his Course of study.

THE CONVOCATION

At the opening of the year in September, 1900, the daily chapel exercises were abandoned. As a substitute for the short daily exercise an entire hour is now devoted to a convocation at which the President presides. In addition to devotional exercises an address is delivered upon some suitable topic. During this hour the libraries and laboratories are closed and no other University exercises occur. It is expected that the Faculty and students will attend. The hour is definitely fixed at ten o'clock on Wednesday of each week. The public is always welcome at the Convocation.

AIDS TO MORAL AND RELIGIOUS CULTURE

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y. M. C. A. work. Services are held weekly and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at 1610 Highland Street as a headquarters for the association. It is hoped that in the near future a permanent home for the association may be provided.

An equally commendable organization is the Young Women's Christian Association affiliated with the State Organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a handbook of information concerning the University, or for information concerning rooms, boarding or employment. Address, O. S. U. Y. M. C. A., 1610 Highland Street, Columbus.

LITERARY AND OTHER SOCIETIES

There are a large number of literary and technical societies and clubs which are open to the students of all colleges of the University. Among the literary societies are the Alcyone, Athenæan, Horton and Townshend

Societies open to young men; and the Browning and Philomathean Societies open to young women. These societies have commodious and well furnished apartments. They meet weekly and their work, offering to the students a very desirable training in composition, public speaking and parliamentary order, is a valuable adjunct to collegiate education. Among technical societies may be mentioned the Asparagus, Biological, Ornithological and Political Science Clubs. The O. S. U. Sketch Club promotes interest in art among the students of the University, while various musical organizations do the same service for music.

EXPENSES

COLLEGE DUES

Incidental Fee. Each student is required to pay an incidental fee of six dollars a term.

The gymnasium is free to all students but those desiring a locker will be charged a fee of one dollar a term.

All term dues must de paid at the opening of each term as a condition of admission to classes.

A fee of five dollars to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred.

For a fuller statement of expenses see general catalogue.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms for students who desire to board themselves and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar and twenty-five cents a week for each student, and the cost of table board is two and one-half dollars to four dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from four dollars to five dollars a week.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees	$ 18 00	$ 18 00	$ 18 00
Laboratory materials	10 00	15 00	25 00
Books and stationery	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	.....	.....
Board	75 00	115 00	175 00
Uniform	14 00	14 00	14 00
	$146 50	$224 00	$347 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued. There is no need of a student spending more than the "average" for items mentioned; many spend less.

FREE SCHOLARSHIPS

A free scholarship good for two years is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture and Domestic Science then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the course. Students taking laboratory work are required to make a deposit to cover materials broken or used up, the same as other students. The free scholarship cannot be used in the special winter term course in dairying. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiry should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of this College.

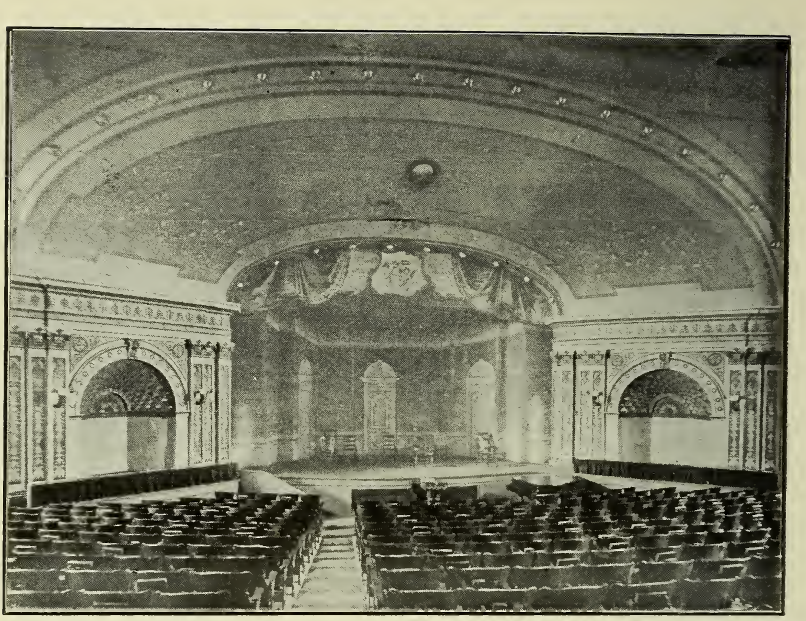
SELF-SUPPORT

There is a large amount of work on the University farm and campus and in the garden, orchard and greenhouses, which can be done by students, and for which they are paid at current rates for such labor. By this means, together with what can be earned by steady labor during the summer vacation, a considerable number of students defray all their expenses.

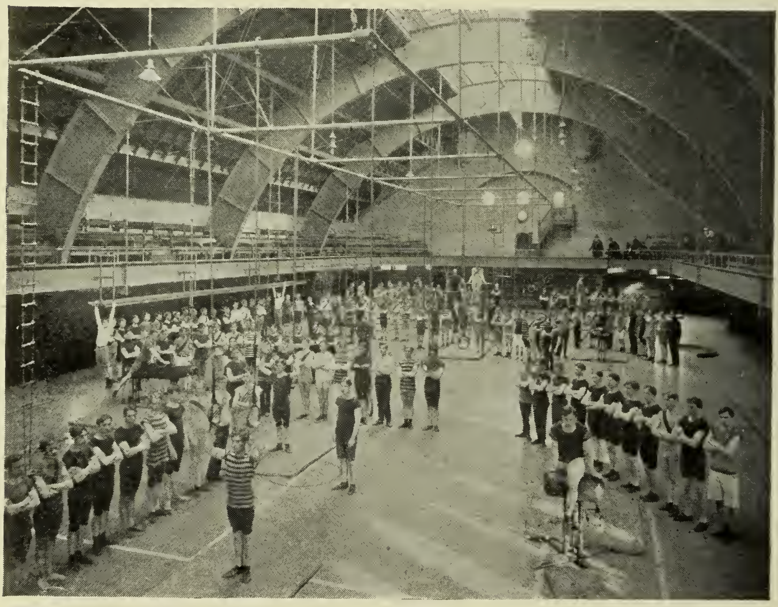
Preference is given to students who are wiling to devote a certain number of hours each day to the work assigned.

Work cannot be promised to all applicants and is not guaranteed to any.

Applications for employment should be made to Frank Ruhlen, Instructor in Zootechny. Labor blanks will be furnished upon request.



THE CHAPEL, OHIO STATE UNIVERSITY



REGULAR CLASS WORK, GYMNASIUM

ENROLLMENT IN THE GRADUATE SCHOOL OF AGRICULTURE

As announced in the catalogue for 1902-1903, the Graduate School of Agriculture was held in Townshend Hall, Ohio State University, July 7 to August 1, 1902.

The faculty included thirty-five men, of whom twenty-six are professors in agricultural colleges, seven are leading officers of the United States Department of Agriculture, and two are officers of the New York Experiment Station. Seventy-five students were in attendance. These were drawn from twenty-eight States and Territories, including such widely separated regions as Maine, Oregon, California, New Mexico and Alabama. There was one student from Canada and one from the Argentine Republic. There was also one woman, and the colored race was represented by teachers from the Tuskegee Institute and the North Carolina Agricultural College. Twenty-seven of the students are professors or assistant professors of agriculture in agricultural colleges, thirty-one are assistants in the agricultural colleges and experiment stations, nine are recent college graduates, and eight are engaged in farming.

Adams, G. E., B. S., Rhode Island Agricultural and Mechanical College, 1894. Assistant agriculturist Rhode Island Experiment Station, Kingston, R. I.

Anderson, L., B. S., 1896; M. S., 1897; Ph. D., 1902, Cornell University. Assistant professor of dairy husbandry and animal industry, University of California, Berkeley, Cal.; director California Polytechnic School.

Belden, H. L., B. S., 1902, Ohio State University, Middlefield, Ohio.

Bogue, E. E., B. S., 1894; M. S., 1896, Ohio State University. Professor of forestry, Michigan Agricultural College, Michigan.

Bridgeforth, G. R., B. S., 1901, Masachusetts Agricultural College. Teacher of agriculture and kindred subjects, Tuskegee Institute, Alabama.

Bull, C. P., B. S., 1901, University of Minnesota. Assistant professor of agriculture, University of Minnesota, St. Anthony Park, Minn.

Burkett, C. W., B. S., 1895; M. S., 1898, Ohio State University. Professor of agriculture, North Carolina Agricultural and Mechanical College, Raleigh, N. C.

Card, F. W., B. S., 1892; M. S., 1893, Cornell. Professor of horticulture and acting professor of agriculture, Rhode Island Agricultural and Mechanical College, Kingston, R. I.

Carter, W. T., jr., B. S., 1898, Texas Agricultural and Mechanical College. Assistant in soil survey, Bureau of Soils, Washington, D. C.

Cavanaugh, G. W., B. S., 1896, Cornell. Chemist Cornell Experiment Station, Ithaca, N. Y.

Clark, H. A., B. S., 1902, Ohio State University. Medina, Ohio.

Conant, W. A., Certificate Dairy School, Massachusetts Agricultural College, 1902. Dairying, Boston, Mass.

Cook, W. M., B. A., 1900, Monmouth College. Farmer, Camden, Ohio.

Crosby, D. J., B. S., 1893; M. S., 1901, Michigan Agricultural College. Assistant in practical agriculture, Department of Agriculture, Washington, D. C.

Crowner,D. A., B. S., 1896, Ohio State University. Instructor in butter making, Ohio State University; creamery operator, West Jefferson, Ohio.

Davis, V. H., B. S., 1900, Ohio State University; M. S., 1901, Cornell. Assistant professor of horticulture and forestry, Ohio State University, Columbus, Ohio.

Decker, J. W., B. S., 1890, University of Wisconsin. Professor of dairying, Ohio State University, Columbus, Ohio.

Duggar, J. F., B. S., 1887; M. S., 1899, Mississippi Agricultural and Mechanical College. Professor of agriculture, Alabama Polytechnic Institute; agriculturist Alabama Experiment Station, Auburn, Ala.

Dunlap, R. W., B. S., 1895, Ohio State University. Farmer, Kingston, Ohio.

Dunlap, John Hyde. Farmer, Williamsport, Ohio.

Echegaray, L., student Ontario Agricultural College. Sgo. del Estero, Argentina, South America.

Erf, Oscar, B. S., 1899, Ohio State University. Instructor in dairy manufactures, University of Illinois, Champaign, Ill.

Foord, J. A., B. S., 1898, New Hampshire College of Agricultural and Mechanic Arts; M. S., 1902, Cornell. Assistant in dairy husbandry, Cornell University, Ithaca, N. Y.

Fraser, Samuel, Fellow of Highland and Agricultural Society of Scotland, 1898; diploma, School of Agriculture and Horticulture, Holmes Chapel, England, 1898; diploma in dairying, Royal and Highland societies, 1898. Professor of agriculture and agriculturist, Briar Cliff Manor, N. Y.

French, H. T., B. S., 1885; M. S., 1889, Michigan Agricultural College. Professor agriculture, University of Idaho; agriculturist, experiment station, Moscow, Idaho.

Gill, G. W., A. B., 1864; A. M., 1867, Marietta College, Columbus, Ohio.

Gilmore, W. H., B. S., 1899, Ohio State University. Stock farmer, Basil, Ohio.

Goddard, L. H., C. E., 1892, Ohio State University. Farmer, Washington C. H., Ohio.

Gowell, G. M., M. S., 1892, University of Michigan. Professor of animal industry, University of Maine; agriculturist, experiment station, Orono, Maine.

Griffith, W. E., instructor in butter making, Cornell University, Ithaca, N. Y.

Hall, F. H., B. S., 1888, Michigan Agricultural College. Editor and librarian, Agricultural Experiment Station, Geneva, N. Y.

Harper, J. N., B. S., 1895, Mississippi Agricultural and Mechanical College. Agriculturist, Kentucky Agricultural Experiment Station, Lexington, Ky.

Harper, M., B. S., 1901, Ohio State University; M. S., 1902, Illinois University. Student, Grove City, Ohio.

Hart, J. F., jr., B. S., 1902, University of Georgia. Fellow in agriculture, University of Georgia, Athens, Ga.

Hayward, H., B. S., 1894; M. S., 1901, Cornell. Assistant professor of dairy husbandry, Pennsylvania State College, State College, Pa.

Hume, A. N., B. S., 1900; M. S., 1902, Purdue University. Assistant agriculturist, Indiana Experiment Station, Lafayette, Ind.

Hutchins, Mrs. M. J., Columbus, Ohio.

Hunt, T. F., B. S., 1884; M. S., 1894, University of Illinois. Dean of the College of Agriculture and professor of agriculture, Ohio State University, Columbus, Ohio.

Jennings, O. E., florist, Ohio State University, Columbus, Ohio.

Johnson, J. M., B. S., 1894, West Virginia University; B. S., 1895; M. S., 1896, Cornell. Instructor animal husbandry and agriculture, University of Georgia, Athens, Ga.

Kendall, J. C., B. S., 1902, New Hampshire Agricultural and Mechanical College. Instructor in dairying, North Carolina Agricultural and Mechanical College, West Raleigh, N. C.

Livermore, A. A., B. S., 1902, New Hampshire. Student, Wilton, N. H.

Lloyd, E. R., B. S., 1886; M. S., 1887, Alabama Agricultural and Mechanical College. Professor of agriculture, Misissippi Agricultural and Mechanical College; agriculturist, experiment station, Agricultural College, Miss.

Lodholtz, E., M. D., 1897, University of Pennsylvania. Assistant demonstrator of physiology, University of Pennsylvania, Philadelphia, Pa.

McClelland, C. K., B. S., 1898, Ohio State University; M. S., 1902, Cornell. Assistant professor of agriculture, North Carolina Agricultural and Mechanical College, West Raleigh, N. C.

McKay, A. B., B. S., 1885, Mississippi Agricultural College. Professor of horticulture, Mississippi Agricultural College; horticulturist, Mississippi Experiment Station, Agricultural College, Miss.

McLallan, H. C., B. S., 1898; M. S., 1901, Cornell. Trumansburg, N. Y.

Mairs, T. I., B. S., 1896; M. S., 1900, Missouri University. Instructor in animal industry and assistant superintendent correspondence course, Pennsylvania State College, State College, Pa.

Merrill, L. A., B. S., 1895, Utah Agricultural College. Assistant professor of agronomy, Utah Agricultural College; agronomist, experiment station, Logan, Utah.

Michels, J., B. S., 1900, University of Wisconsin. Instructor in dairying, Agricultural College, Mich.

Morrey, C. B., B. A., 1890, Ohio State University; M. D., 1896, Starling Medical College. Associate professor of physiology, Ohio State University, Columbus, Ohio.

Moore, R. A., instructor in agriculture, University of Wisconsin, and agriculturist Wisconsin Experiment Station, Madison, Wis.

Moore, J. S., B. S., 1894; M. S., 1896, Mississippi Agricultural and Mechanical College. Professor of dairy husbandry, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.

Morse, W. J., B. S., 1898, University of Vermont. Instructor in botany, University of Vermont; assistant botanist, Vermont Experiment Station, Burlington, Vt.

Nesom, G. E., B. S., 1895, Mississippi Agricultural and Mechanical College; D. V. M., 1898, Iowa State College. Veterinarian, South Carolina Agricultural Experiment Station; State veterinarian, Clemson College, S. C.

Lauman, G. N., B. S., 1897, Cornell. Instructor in horticulture, Cornell University, Ithaca, N. Y.

Pernot, E. F., professor of bacteriology and State bacteriologist, Oregon State Agricultural College, Corvallis, Ore.

Robinson, P. E., B. S., 1899, North Carolina Agricultural and Mechanical College. Agriculturist, Agricultural and Mechanical College, Greensboro, N. C.

Roudebush, L., B. A., 1871, National Normal. Farmer, Nicholsville, Ohio.

Ruhlen, F., B. S., 1896, Ohio State University. Instructor in zootechny, Ohio State University, Columbus, Ohio.

Shaw, E. L., B. S., Ohio State University. Assistant in agriculture, University of Missouri, Columbus, Mo.

Sisson, S., S. B., 1898, University of Chicago; V. S., Ontario. Associate professor of veterinary medicine, Ohio State University, Columbus, Ohio.

Smith, J. Warren, B. S., 1888; M. S., 1900. New Hampshire Agricultural and Mechanical College. Section director, United States Weather Bureau, Columbus, Ohio.

Smith, L. H., B. S., 1897; M. S., 1899, University of Illinois. Chief assistant chemist, experiment station, Champaign, Ill.

Stocking, W. A., jr., B. S., 1895, Connecticut Agricultural College; B. S., 1898, Cornell. Dairy experimenter, Connecticut Agricultural College, Storrs, Conn.

Stone, J. L., B. S., 1874, Cornell. Assistant in agriculture, Cornell University, Ithaca, N. Y.

Tucker, G. M., B. S., 1894, Rhode Island Agricultural College; Ph. D., University of Gottingen. Instructor in agriculture, University of Missouri, Columbia, Mo.

Upton, C. O., B. S., 1881, Cornell. Dairyman and instructor in animal husbandry, Clemson College, S. C.

Van Norman, H. E., B. S., 1897, Michigan Agricultural College. Instructor in dairying, Purdue University, Lafayette, Ind.

Vernon, J. J., B. S., 1897; M. S., 1899, Iowa State College. Professor of agriculture and horticulture, New Mexico College of Agriculture and Mechanic Arts; agriculturist, experiment station, Mesilla Park, N. Mex.

Waid, C. W., B. S., 1898, Ohio State University. Assistant horticulturist, experiment station, Wooster, Ohio.

White, D. S., D. V. M., 1890, Ohio State University. Dean of College of Veterinary Medicine and professor of veterinary medicine, Ohio State University, Columbus, Ohio.

Williams, C. B., B. S., 1893; M. S., 1896, North Carolina Agricultural and Mechanical College. Assistant State chemist, Raleigh, N. C.

Wing, H. H., B. S., 1881; M. S., 1891, Cornell. Professor animal industry and dairy husbandry, Cornell University, Ithaca, N. Y.

Zavitz, C. A., diploma, 1886, Ontario Agricultural College; B. S., 1888, Toronto University. Station experimentalist and director coöperative experiments, Ontario Agricultural College, Guelph, Canada.

THESES OF THE CLASS OF 1903 OF COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FIRST DEGREES

BACHELOR OF SCIENCE

IN AGRICULTURE

James Byrl Crabb..Mt. Sterling
Thesis: The Conformation of Percheron Horses.
Theodore Walter Ditto..Delphos
Thesis: Studies of Ohio Aphididæ.
Ollie Wayman Ferguson..Steubenville
Thesis: Experiments with Root Tubercles.
Frank Edward Hamilton..Brownsville
Thesis: Factors Affecting Milk Yield.
Clarence Boal Hoover..Columbus
Thesis: Soil Types on the Farm of the Ohio State University.
Lloyd Jones..Columbus
Thesis: The Milk Supply of Columbus, Ohio.
Otto Emery Jennings..Olena
Thesis: Corn Smut.
Chester Arthur McClelland..Terrace Park
Thesis: The Adaptation of Alfalfa to Ohio.
Charles Cardoza Poindexter........................Parkersburg, W. Va.
Thesis: The Development of the Flower and Embryo of Corn.

BACHELOR OF SCIENCE

IN HORTICULTURE AND FORESTRY

Frank Clark Long...West Sonora
Thesis: Plans for the Buildings and Grounds of a Rural Home.

Lee Downs Twitchell...Mansfield
Thesis: A Study of the Development and Keeping Qualities of Apples and Pears.

BACHELOR OF SCIENCE

IN DOMESTIC SCIENCE

Lucy Blanche Clawson...Okeana
Thesis: The Economic Values of Dietary Investigations and Suggestions for Practical Dietary Work in the Home.

Faith Robinson Lanman...Columbus
Thesis: A Study of Wheat and Its Importance in Food Economics.

Mary Gertrude McMahon...Columbus
Thesis: Plans, Specifications and Estimates of Young Woman's Building at Ohio State University.

ENROLLMENT IN THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE, 1902-1903

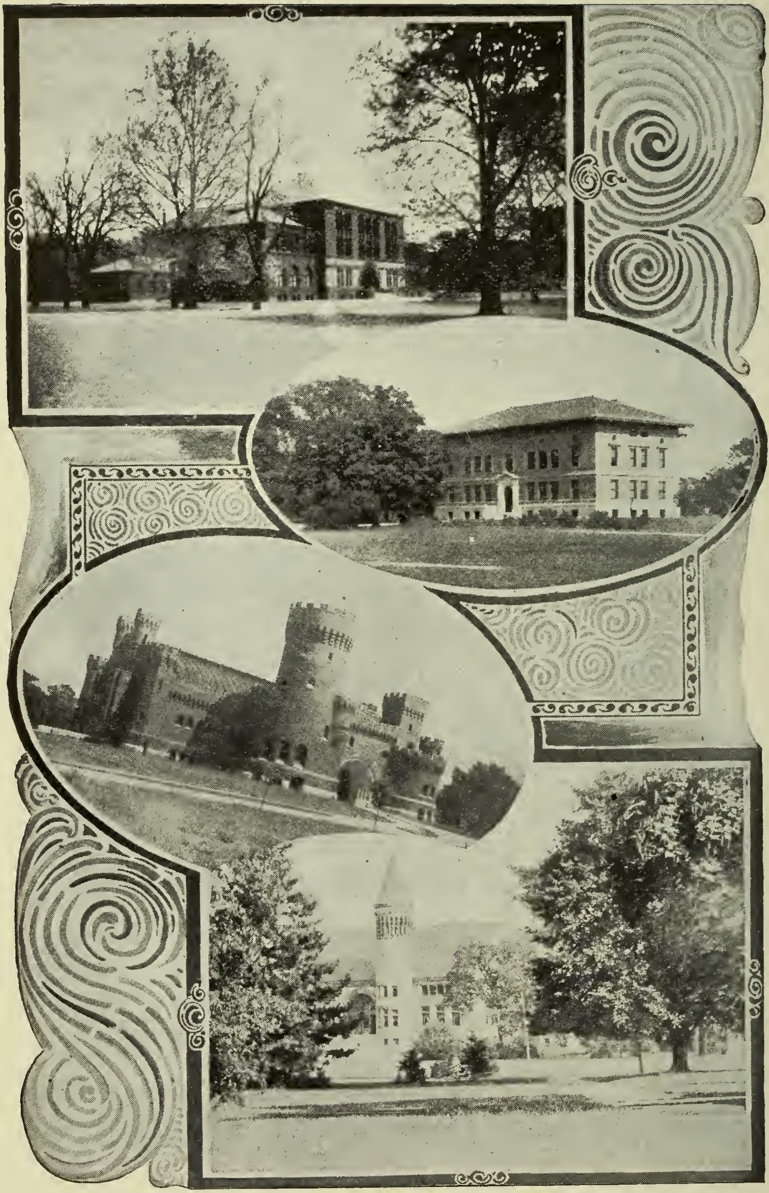
Adams, Charles Randolph	Agr.	2nd Year	Prairie Depot
Albright, Henry Babbitt	Agr.	1st “	Columbus
Allen, Francis Lane	Agr.	1st “	Van Wert
Alleshouse, Otto Clarence	Agr. S.	1st “	New Bedford
Alt, Charles Pearl	Agr. S.	1st “	Baltimore
Andress, Fred Elmo	Agr.	1st “	North Amherst
Bales, William Robinson	Agr. S.	1st “	London
Ballard, Walter Lane	Dairy	....	Cleveland
Barrett, Walter Case	Dairy	....	Crum Elbow, New York
Batterson, Annie Elizabeth	Dom. Sc.	3rd “	Columbus
Beattie, James Herbert	H. and F	2nd “	Zanesville
Bennett, Jessie Hope	Dom. Sc. S.	1st “	Deavertown
Bernecker, McElrane Robert	Dairy	....	Emerson
Bickham, Clifford Albert	Agr. S.	2nd “	Huntsville
Blachley, Bertha	Dom. Sc. S.	2nd “	Columbus
Blickensderfer, Charles Frederic	Agr.	1st “	Gnadenhutten
Bowman, Duiguid Abraham	H. and F.	2nd “	Columbus
Bowser, Earl Levi	Agr.	1st “	West Unity
Brandenburg, Peter Earl	Agr. S.	1st “	Campbellstown
Brintnall, Whiteside Lawrence	Agr. S.	1st “	Medina
Bugby, Morris O	Agr.	4th “	Kingsville
Campbell, Clara Naomi	Dom. Sc.	2nd “	Columbus
Chance, Jesse Ellsworth	Agr. S.	1st “	London
Clark, Webster Harry	Agr. S.	1st “	Medina
Clawson, Lucy Blanche	Dom. Sc.	4th “	Okeana
Clawson, Apha Lee	Dom. Sc.	1st “	Okeana
Clevenger, William Leander	Agr. S.	1st “	Fletcher
Coe, Clarence	Dairy	....	Centerburg
Condit, Ira Judson	H. and F.	1st “	Jersey
Cooperrider, Margaret	Dom. Sc. S.	1st “	Brownsville
Crabb, Floi Euphemia	Dom. Sc.	1st “	Mt. Sterling
Crabb, George Arthur	Agr.	1st “	South Warsaw
Crabb, James Byrl	Agr.	4th “	Mt. Sterling
Crall, Homer Boyd	Agr.	1st “	Bucyrus
Crisman, Harry	Dairy	....	Centerburg
Crumrine, George Ray	Agr. S.	2nd “	Nova
Cushman, Jared Meacham	Dairy	....	Woodstock
Davis, Charles Harrington	Dairy	....	Newark
Demuth, Charles Alfred	Agr. S.	1st “	Waterville
Dickerman, Charles Edwin	Agr. S.	1st “	Mallet Creek
Ditto, Theodore Walter	Agr.	4th “	Delphos
Doneghue, Ray Claude	Agr. S.	2nd “	Columbia Station
Drake, Alonzo	Agr.	1st “	Bedford
Dreisbach, Orville Cornelius	Agr. S.	2nd “	Findlay
Easton, Arthur Perry	Agr.	2nd “	Springboro
Echegaray, Saile	Agr. S.	2nd “	Santiago del Estero, Ar. Rep.
Eckman, Otto Leo	Agr.	3rd “	Brookville

Eichelberger, Floyd Everett	Agr. S.	2nd “	Jeffersonville
Elliott, Porter	Agr.	1st “	West Mansfield
Esbenshade, John Weaver	Agr. S.	1st “	Binkley, Pa.
Estle, Fred	Agr.	2nd “	Springfield
Fast, Emmer Christian	Agr. S.	1st “	Napoleon
Ferguson, Ollie	Agr.	4th “	Steubenville
Finney, Elkhana Elhana	Agr.	2nd “	Cedarville
Florence, Walter Tuttle	Agr. S.	2nd “	Plain City
Ford, Clarence	Dairy		Calla
Foster, Chester Glenn	Agr.	2nd “	London
Foster, Emma Warwick	Dom. Sc.	3rd “	Higbys
Fromme, Nola Katherine	Dom. Sc.	1st “	Richmond, Ind.
Fromme, Rudo Lorenzo	H. and F.	1st “	Richmond, Ind.
George, John Harry	Dairy		Beaver Falls, Pa.
Grant, Lawrence	Dairy		Alliance
Green, Nathaniel Sexton	Agr. S.	1st “	Camp Dennison
Grogan, Thomas	Dairy		Wilmington
Groves, Walton Ellis	Agr. S.	1st “	Egypt
Guy, Earle William	Agr. S.	2nd “	Mechanicsburg
Halverstadt, Clark J	Agr.	2nd “	Leetonia
Hamilton, Frank Edward	Agr.	4th “	Brownsville
Hamilton, Harry Hoge	Agr.	2nd “	Brownsville
Hamilton, Paul Ibbotson	Agr.	1st “	Brownsville
Hammond, James Weston	Agr.	1st “	Blaine
Harned, Robey Wentworth	Agr.	1st “	Greenville
Harter, Leslie Allison	Agr. S.	2nd “	Delaware
Harvey, George Crocker	Agr.	1st “	Richmond, Ind.
Harvey, Winifred	Dom. Sc. S.	1st “	Wilmington
Hatfield, Clifford Christian	Agr.	3rd “	Lebanon
Haymaker, Frederick Elon	Agr.	1st “	Ravenna
Heller, Otto	Dairy		Calumetville, Wis.
Hirsch, Frieda	Dom. Sc.	2nd “	Columbus
Hoag, Franklin Jarvis	Agr. S.	1st “	Poplar Ridge, New York
Holl, Edgar David	Agr.	2nd “	New Berlin
Hollister, Ruth Amanda	Dom. Sc.	3rd “	Galion
Hoover, Charles Potter	Agr. S.	1st “	Columbus
Hoover, Clarence Boal	Agr.	4th “	Columbus
Hoover, Esther	Dom. Sc. S.	1st “	Munson
Hoover, Susan Corwin	Dom. Sc. S.	1st “	Columbus
Horr, Walter Bert	Dairy		Mechanicsburg
Houser, Charles Newton	Agr.	1st “	Troy
Houser, True	Agr.	1st “	New Pittsbprg
Hudson, Clara Putnam	Dom. Sc.	4th “	Middleport
Hummon, Simon Peter	Agr.	1st “	Leipsic
Hunter, Cecil	Agr. S.	1st “	Catawba
Hussey, George Myron	Dairy		Lawton's Station, N. Y.
Hyatt, Charles Daniel	Agr.	1st “	Augusta
Hyatt, Earle Edgar	Agr.	1st “	Clyde
Hyatt, James Vernon	Agr.	1st “	Augusta
Hyde, Crawford Fulton	Agr.	1st “	Frankfort
Hyde, George C	Agr. S.	2nd “	Warren
Hyslop, George Robert	Agr.	1st “	Deshler
Inskeep, Guy Hamilton	Agr.	1st “	Bellefontaine
Janeway, Mary Viola	Dom. Sc. S.	1st “	Columbus
Jenkins, Orville	Dairy		Sabina
Jennings, Otto Emery	Agr.	4th “	Olena
Jones, Lloyd	Agr.	4th “	Columbus
Judson, Harold Nelson	Agr. S.	1st “	Medina
Kellerman, Edna	Dom. Sc.	1st “	Lebanon, Mo.
Kelley, James Clinton	Dairy		Clarksville
Kinney, Edmund	H. and F.	1st “	Yellow Springs

Knips, George	Dairy			Brooklyn, N. Y.
Kumler, Lester	Dairy			Basil
Ladrach, Fred Carl	Agr. S.	1st	“	Birmingham
Laird, Maurice Ellsworth	Agr. S.	1st	“	London
Lanman, Faith Robinson	Dom. Sc.	4th	“	Columbus
Lawrence, William Harris	Agr.	1st	“	Columbus
Lichti, Emmet Irvin	Agr. S.	1st	“	Tuscarawas
Logan, Ernest Jefferson	Agr. S.	1st	“	Andrews
Long, Frank Clark	H. and F.	4th	“	West Sonora
Main, Frank Roe	Agr. S.	1st	“	Delaware
Main, Joseph Allen	Agr.	1st	“	Ostrander
Mangum, Benedict Wyley	Agr. S.	2nd	“	North Benton
Mann, Ivand Irene	Dom. Sc. S.	1st	“	Linden Heights
Martin, William A.	Agr.	1st	“	Kenton
Matthews, Bessie	Dom. Sc.	1st	“	Sunbury
Mellinger, Charles Johnson	Agr. S.	1st	“	Springfield
Meriam, Oliver Frelinghuysen	Agr.	1st	“	Randolph
Mesloh, Harry Smith	Dairy			New Bremen
Meyers, Ada Lucy	Dom. Sc.	3rd	“	Columbus
Miller, Carl Everett	Dairy			Oregonia
Mills, Fred Pearl	Agr. S.	1st	“	Marysville
Miner, Charles Austin	H. and F.	2nd	“	Bristolville
Miner, Charles Lewis	Agr.	1st	“	Clyde
Minns, Edward Russell	Agr.	2nd	“	Lodi
Miskimen, Burt	Agr. S.	2nd	“	Plainfield
Moore, Loyal Thomas	Dairy			Pataskala
Murray, Pitt Jones	Agr. S.	1st	“	London
McBeth, Ira Guy	Agr.	1st	“	Georgetown
McClelland, Chester Arthur	Agr.	4th	“	Terrace Park
McClelland, George Cooper	Agr. S.	2nd	“	Fredericktown
McClimans, Nellie Rhoda	Dom. Sc. S.	2nd	“	Mt. Sterling
McClintock, James Earl	Agr.	1st	“	Summerfield
McKinley, Emma Evans	Dom. Sc.	3rd	“	Columbus
McMahon, Mary Gertrude	Dom. Sc.	4th	“	Columbus
McNutt, John Chester	Agr. S.	2nd	“	North Kingsville
McOwen, James, Jr	H. and F.	4th	“	Ovid
Neale, Alvin Scott	Agr.	1st	“	Rock
Nichols, Anne Victorine	Dom. Sc. S.	2nd	“	Chillicothe
Oberlin, Mary Lavina	Dom. Sc.	2nd	“	Massillon
Oliver, Clem Jones	Agr.	1st	“	Chillicothe
Oliver, Lewis Miller	Agr. S.	1st	“	Chillicothe
Orr, Anna Faye	Dom. Sc. S.	1st	“	Brownsville
Osborne, Charles Glenn	Dairy			Clarksville
Palmer, Lee Buckland	Agr. S.	2nd	“	Reynoldsburg
Palmer, William Henry	Agr.	2nd	“	Thurston
Parker, Lem Oris	Agr. S.	1st	“	Findlay
Parkinson, John William	Dairy			Gowanda, N. Y.
Perkins, Charles Ray	Dairy			North Olmstead
Petry, Edward Jacob	Agr.	1st	“	Gnadenhutten
Pettit, Charles Hamilton	Dairy			Reynoldsburg
Pfaffman, George Arthur	Agr.	1st	“	Cleveland
Phallen, Oscar	Dairy			Granger
Pierce, Ralph Waldo	Dairy			Medina
Poindexter, Charles Cordoza	Agr.	4th	“	Parkersburg, W. Va.
Pontius, Frank March	Agr.	1st	“	Groveport
Post, Corwin Hoover	Agr. S.	2nd	“	Spencerville
Poston, Emerson Scott	Agr.	2nd	“	Haydenville
Quiroga, Modesto	Agr.	3rd	“	San Luis, Argen. Rep.
Raudabaugh, Mrs. Orville	Dom. Sc.	Spl.	“	Lewisburg
Reiterman, Harry	Agr. S.	1st	“	Chillicothe
Robinson, James Lee	Agr. S.	1st	“	Conesville

Rolison, Horace Seldon	Agr. S.	1st	“	Pataskala
Roudebush, Earl Patchel	Agr. S.	1st	“	Newtonsville
Roush, Ted	Agr. S.	1st	“	Russells
Rowe, Harry Odell	Agr. S.	1st	“	Belvidere, Ills.
Rubins, Frank	Agr.	2nd	“	Kenton
Ruhlen, Mrs. Mabel	Dom. Sc.	1st	“	Columbus
Schupbach, John	Dairy			Canton
Sewall, Ernest Maurice	Dairy			Yellow Springs
Shaw, Norman Ewing	H. and F.	1st	“	Nice
Shepard, Ewart Ralph	Agr.	1st	“	Perry
Sherwood, Fred E.	Dairy			Oregonia
Shields, Richmond Lee	H. and F.	1st	“	Watkins
Sigrist, Lewis Marion	Agr.	1st	“	Congress
Simkins, Carlos Guy	Dairy			Lynchburg
Smith, Aaron Thomas	Agr.	1st	“	Chester Hill
Smith, Charles Ralph	Agr. S.	1st	“	Plain City
Smith, Henry Earl	Agr. S.	1st	“	Germantown
Smith, Lindley M.	Agr.	2nd	“	Chesterhill
Smith, Newton Connett	Dairy			Centerburg
Smith, Orma Jacob Burrell	Agr. S.	1st	“	Jamestown
Smith, Raymond F.	Agr.	1st	“	New Carlisle
Snyder, George Tillson	Agr.	1st	“	Monroeville
Sparrow, Alfred	Dairy			Parkman
Spitler, Alice	Dom. Sc.	2nd	“	Dayton
Stamets, Eva Belle	Dom. Sc.	1st	“	Columbus
Stephenson, John Earl	Agr. S.	1st	“	Ansonia
Stevens, Nellie Elizabeth	Dom. Sc. S.	1st	“	Whitmore Lake, Mich.
Stevenson, Andrew Dee	Agr. S.	1st	“	Murphysville, Ky.
Steward, Alice Ione	Dom. Sc.	3rd	“	Columbus
Stillwell, Margaret	Dom. Sc.	1st	“	Columbus
Stinchcomb, Clarence Evans	Agr.	1st	“	Perry
Stingel, Brisben Otto	Agr. S.	1st	“	Coshocton
Stormont, John Earl	Dairy			Xenia
Sullivan, Fannie Augusta	Dom. Sc.	3rd	“	New Carlisle
Tangeman, Clara Margaret	Dom. Sc.	3rd	“	New Bremen
Tangemann, George	Dairy			Kettlerville
Tebbs, George Owings	Agr.	1st	“	Winchester, Ky.
Thompson, Benjamin Lee	Agr.	1st	“	Jersey
Thompson, Bertha Louise	Dom. Sc. S.	1st	“	Columbus
Thompson, Glenn Otto	Agr. S.	2nd	“	Cedar Valley
Thompson, Loula Belle	Dom. Sc.	1st	“	Georgetown
Tillman, Opal Ione	Dom. Sc.	2nd	“	Columbus
Tonkinson, Roy	Agr. S.	1st	“	Xenia
Topliff, Harry Lewis	Agr. S.	2nd	“	La Rue
Twitchell, Lee Downs	H. and F.	4th	“	Mansfield
Tyrrell, Brenniss Hawley	Agr. S.	1st	“	Kingsville
Underwood, Zephaniah	Dairy			Wilmington
Van Meter, William George	Dairy			Philadelphia, Pa.
Waid, Ernest David	Agr.	1st	“	Wauseon
Walkden, Chester Arthur	Agr. S.	1st	“	Elyria
Wallace, Edwin	Agr.	1st	“	Wooster
Warrick, George Henry	Agr. S.	1st	“	Washington, Pa.
Washburn, Wayne	Agr. S.	2nd	“	Greenwich
Watt, Vivian	Dom. Sc.	2nd	“	Freeport
Weakley, Arthur Algernon	Dairy			Baltimore
Weaver, Joseph Elias	Agr. S.	1st	“	North Point
Weist, Dwight Wilson	Agr.	2nd	“	Basil
Wells, Bertran Whittier	H. and F.	1st	“	Toledo
Wells, Burton Louis	Agr.	1st	“	Marengo
West, Frederick Long	Agr.	2nd	“	Bloomingburg
Wetherby, Walter Henry	Dairy			Columbus

Wheeler, Thomas Leroy	Agr.	3rd	“	Chillicothe
White, James Chalmers	Agr.	2nd	“	Lebanon
Wilder, Garfield James	Agr.	1st	“	Elyria
Willis, Rolla Goodrich	Agr. S.	1st	“	Delaware
Winter, Thomas Raymond	Dairy			Worthington
Wright, Edith Betsy	Dom. Sc.	1st	“	New Vienna
Wright, Lillian Augusta	Dom. Sc. S.	1st	“	Middlefield
Young, Robert Armstrong	Agr. S.	1st	“	Cleveland
Zehring, Edgar Levi	Agr.	2nd	“	Germantown



HAYES HALL
ARMORY AND GYMNASIUM

BIOLOGICAL HALL
ORTON HALL

LIST OF ALUMNI AND OF THE EX-STUDENTS OF THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE SINCE

1892

Abbott, Arthur G., B. Sc. (Agr.)	1899*	Wadsworth, Dairy Farmer
Abbott, Carl B	(1898-1900)†	R. R. No. 1, Medina, Farmer
Abbott, George F	(1899-1901)	R. R. No. 1, Medina, Farmer
Adams, Judson J	(1896-1897)	
Adams, Walter Lewis	(1897-1898)	Sta. A, Columbus, Employe Adams Express Co.
Adcock, James G	(1899-1900)	R. R. No. 2, Nelsonville, Dairy Farmer
Allen, Glen Lloyd	(1898-1899)	R. R. No. 7, Washington C. H., Farmer
Alpeter, John Edward	(1896-1897)	State Hospital, Massillon, Employe
Alvord, Lewis Upton	(1896-1897)	Bement, Ill., Grocer
Anderson, J. B	(1897-1899)	Died, June 28, 1901, Jewett
Andress, Henry M	(1898-1899)	Birmingham, Farmer
Andrew, Harry S	(1900-1901)	New Moorefield, Stockman
Armstrong, Clara, B. Sc. (D. Sc.)	1901	298 King Ave., Columbus
Armstrong, Edgar Manley	(1899-1900)	Ada, Student
Armstrong, Gertrude	(1900-1901)	Worcester, Mass., Student, Domestic Science, Oread Institute.
Arney, Sam H	(1900-1901)	Lancaster, Dairyman
Arnold, Frank W	(1899-1900)	159 Sixth Ave., Cleveland, U. S. Inspector of Merchandise.
Arnold, Margaret	(1900-1901)‡	Wellsville
Aten, Franklin Stewart	(1895-1897)	Nevada, Farmer
Atherton, William T	(1898-1901)	Carrollton, Student, College of Veterinary of Medicine, O. S. U.
Auld, J. Mc	(1895-1896)	Iberia, Farmer
Aumend, Manuel Grant	(1891-1894)	Delta, Farmer
Ayers, Samuel Dana	(1892-1895)	303 Porter Ave., Warren, Superintendent Pasteurized Milk Co.
Baer, Philip, Jr., B. Sc. (Agr.)	1897	Canal Dover, Farmer
Bailey, Alva C	(1900-1901)	Tacoma, Supt. Belmont Stock and Dairy Farm.
Baker, William Hollister, B. Agr	1892	R. R. No. 3, Trenton, Mo., Stock Farmer
Baldwin, Ethel	(1899-1901)	Columbus
Baldwin, Linus R	(1893-1896)	R. R. No. 1, Newton Falls, Farmer
Ball, F. C	(1895-1896)	Mt. Vernon, Dairy Farmer
Barcus, Eliza Doherty	(1900-1901)	1000 State St., Schenectady, N. Y.
Barker, Asbury Fletch	(1895-1897)	R. R. No. 1, New Lexington, Farmer
Barrick, Robert H	(1901-1902)	R. R. No. 1, Linden Heights, Farmer
Barth, Monetta	(1901-1902)	New Bremen, Farmer
Baughman, Charles Francis	(1893-1894)‡	Springboro

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* Indicates student completed four years' course in the year and with the degree mentioned.

† Indicates student was in college the year or years mentioned, but did not graduate.

‡ Not heard from since January, 1902.

Bauman, Christian William	(1899-1900)	Axtel, Swiss Cheese Manufacturer
Beal, John William	(1894-1895)	Ruggery Building, Columbus, Architectural Draftsman.
Beale, Harry G., B. Sc. (Agr.)	1902	Mt. Sterling, Farmer, Breeder of Duroc Jerseys.
Beard, Alexander Wilson	(1897-1898)	Calla, Manager Beard Creamery Co.
Beard, Ralph H	(1895-1896)	Bucyrus, Farmer
Beardsley, Ensign Newton	(1895-1896)	R. R., Washingtonville, Farmer
Beattie, Emma Miles	(1896-1897)	—Washington, D. C.
Beattie, Lena Leota	(1896-1897)‡	Selma, Ala., Missionary in Knox Academy
Beattie, Rosalie Mae	(1898-1899)	Selma, Ala., Missionary among Freedmen in Black Belt.
Beattie, William Renwick, B. Sc. (Hort.)	1894	Bureau of Plant Industry, U. S. Dept. Agr., Washington, D. C., Assistant in Botany.
Beatty, Madge	(1899-1901)	86 E. Eighth Ave., Columbus
Beem, Alda Morgan	(1895-1896)	Jersey, Clerk in General Store
Beer, James Anderson	(1895-1896)	Ashland
Belden, Herbert L., B. Sc. (Agr.)	1902	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Soil Agent and Expert.
Bell, Nelson Hugh	(1891-1892)	R. R. No. 5, Circleville, Farmer
Beneker, Robert Edgar	(1899-1901)	Station I, Cincinnati, Bookkeeper
Benjamin, Ray	(1900-1901)	Youngstown, Street Car Conductor
Bently, William P., B. Agr	1885	B. A., 1890; M. A., 1893, Bethany College
Betts, Adelbert Hayes	(1898-1899)‡	Kinsman, Cheesemaker
Biddison, Bertha Minnie	(1901-1902)	Glouster, Student in Columbus Kindergarten Training School.
Bigger, Paul B	(1900-1901)	713 Adams St., Toledo, Employe Pure Milk Dairy Co.
Biggin, O. L	(1900-1901)	219 Holmes St., Youngstown, Cheesemaker
Birdsall, James Warner	(1893-1896)	R. R. No. 1, Fremont, Farmer
Birney, Worthington H	(1892-1893)	R. R. No. 1, Uhrichsville, Farmer
Blachley, Helen	(1898-1899)	
Bloomfield, Lloyd M., B. Agr	1891	Paso del Cura, Vera Cruz, Mexico, Manager La Esmeralda Plantation.
Boggs, Howard S	(1898-1900)	Kingston, Student, College of Veterinary Medicine, O. S. U.
Bogue, Ernest E., B. Sc. (H. and F.)	1894	M. Sc., 1896, Agricultural College, Michigan, Professor of Forestry.
Bone, John Hayes, B. Sc., 1893; B. Sc., (Agr.)	1896	Shadeland, Ind., Farmer
Booth, R. A	(1901-1902)	Helena, Mont., Dairyman
Bowsher, Harry Dittmar	(1896-1897)	Buckland, Owner and Proprietor of the "Practical Stock Farmer."
Boynton, Frank J	(1900-1902)	Haverhill, Farmer
Bragg, Putnam Benjamin	(1897-1898)	Malta, Dairy Farmer
Brandt, James McPherson	(1893-1894)	510-511 Johnston Building, Cincinnati, Lawyer
Bratton, Alice May, B. Sc. (D. Sc.)	1901	1309 Neil Ave., Columbus, Teacher Domestic Science, Industrial School.
Brechbill, B. H	(1895-1896)	Defiance, Buttermaker
Breckenridge, Wm. Kemper	(1898-1900)	R. R., Vincent, Student, College of Veterinary Medicine, O. S. U.
Breckler, Leo A	(1900-1902)	Defiance, Farmer
Breese, C. N	(1897-1901)	Lima, Buttermaker, Lima Creamery and Cold Storage Co.
Brinker, Thomas W	(1897-1899)	Chatham, Farmer
Britton, John Carr, B. Sc. (Agr.)	1898	Bureau of Soils, U. S. Dept Agr., Washington, D. C.
Britton, William Miller	(1897-1898)	1654 Oak St., Columbus, Engineer Columbus Water Works (West Side Pumping Station).
Brown, Aaron S	(1892-1893)	Circleville, Stock Farmer

Brown, Alfred P.	(1896-1897)	Dillon, Mont., Ranching and Cattle Raising
Brown, Alma Marie	(1896-1897)	
Brown, I. Sumner	(1896-1897)	
Bryson, Julia Leona	(1897-1898)	1292 Hunter St., Columbus
Bundy, Lyman E.	(1898-1900)	Colerain, Fruit Grower and Gardener
Burkett, Chas. William B. Sc. (Agr.)	1895	M. Sc., 1898, West Raleigh, N. C., Professor of Agriculture.
Byers, William G.	(1898-1900)	Lilly Chapel, Stock Farmer
Cahill, Verrill W.	(1899-1901)	Tiro, Farmer
Caldwell, Robert Smith	(1894-1895)	
Cameron, John H.	(1894-1895)	Salem, Dairy Farmer
Candy, Ella Belle (Mrs. Wheeler)	(1898-1900)	200 N. Twenty-second St., Columbus
Canfield, C. H.	(1893-1894)	Care Kingan & Co., Indianapolis, Ind., U. S. Meat Inspector.
Carey, Nathan H.	(1899-1900)	Studebaker, Cal., Manager Skimming Station
Carl, Harry W.	(1898-1899)	Columbus, Employee Standard Milk Co.
Carril, Pedro Leon del	(1900-1901)	San Juan, Argentine Republic, S. A., Student, College of Veterinary Medicine, O. S. U.
Case, Aubrey Edmund	(1901-1902)	Hudson, Student, College of Veterinary Medicine, O. S. U.
Case, Claude H.	(1900-1901)	Hudson, Student, College of Veterinary Medicine, O. S. U.
Cass, Roscoe	(1896-1897)	1703 Broadway, Toledo, Farmer
Church, J. S.	(1898-1901)	Palmyra, Locomotive Foreman at Hibbing, Minn.
Churchman, Morris Harper	(1900-1901)	Station "A," Columbus, Student, College of Veterinary Medicine, O. S. U.
Clapp, E. T.	(1900-1902)	R. R. No. 4, Medina, Stock Farmer
Clark, Herman Alfred, B. Sc. (H. and F.)	1902	Bureau of Soils, U. S. Dept Agr., Washington, D. C., Tobacco Expert.
Clark, Ollie D.	(1899-1901)	Wheat, Farmer
Clark, Ralph	(1901-1902)	
Clawson, Clarence A., B. Sc. (Agr.)	1899	D. V. M., 1900, Box 525 Trinidad, Col., Assistant Inspector B. of A. I., U. S. Dept. of Agr.
Clevenger, Charles	(1897-1899)	Fletcher, Teacher
Cline, Walter E.	(1893-1895)	New Vienna, Breeder of Shorthorn and Polled Durham Cattle.
Closson, Clayton D.	(1896-1897)	331 N. Union St., Fostoria, Chemist
Coates, Elsie	(1898-1899)	Columbus
Coberly, Edward D.	(1899-1902)	Pueblo, Col., Observer, U. S. Weather Bureau
Cochran, George	(1901-1902)	Russellville, Farmer
Codding, Harry W.	(1900-1901)	R. R. No. 2, Medina, Dairy Farmer
Coddington, Alva Leroy	(1894-1896)	43 Auburndale Ave., Cleveland, Employe Book Concern.
Coe, William D.	(1895-1896)	Washington C. H., Creamery Proprietor
Commons, Horace J.	(1900-1901)	Centerville, Ind., Assistant General Manager Centerville Condensed Milk and Creamery Co.
Comstock, Allen L.	(1897-1899)	R. R. No. 2, Waynesville, Operator French Bros.' Creamery at Harveysburg.
Condit, Lorenzo S.	(1894-1895)	R. R. No. 5, Sunbury, Dairy Farmer
Conkle, Harry	(1895-1897)	Danville, Farmer
Conradi, Albert F., B. Sc. (Agr.)	1901	Durham, N. H., Instructor in Zoology and Entomology, New Hampshire State College
Coon, Fred L.	(1901-1902)	Tremont, Dairyman
Cotton, Edwin C.	(1897-1901)	Lorain, Farm Employe
Cotton, George W.	(1899-1900)	Lorain, Dairyman
Covell, Jay Imman	(1896-1897)	R. R. No. 1, Port Clinton, Carpenter
Craig, Moses, B. Sc.	1889	M. Sc., 1890, Cornell; M. Sc. (H. and F.), 1896, O. S. U.; Agricultural College, Michigan, Special Student in Horticulture.

Cranz, Eugene Franz	(1892-1893)	Ira, Farmer
Crawford, Mary B., B. Sc. (D. Sc.)	1901	Blaine
Creamer, Jesse C	(1899-1901)	Jeffersonville, Farmer
Cromley, Alvah Miller	(1892-1895)	512 E. Long St., Columbus, Prop. Columbian Drug Store.
Crowner, Delbert Alonzo, B. Sc. (Agr.)	1896	West Jefferson, Instructor in Buttermaking, O. S. U., and Proprietor Crowner Dairy Co.
Cunningham, John F., B. Sc. (H. and F.)	1897	Cleveland, Editor Ohio Farmer
Dallas, John Thomas	(1893-1897, 1898-1900, 1901-1902)	R. R. No. 4, London, Farmer
Daniels, John Thomas	(1892-1894)	
Darling, Everett Clyde	(1894-1896)	Nellie, Shorthorn Breeder and Feeder
Darling, Mabel	(1900-1901)	Columbus, Librarian Godman Guild House, 470 W. Goodale St.
Davenport, Charles A	(1892-1895)	Chillicothe, Employe C. J. Miller & Co., Jobbers in Boots and Shoes.
Davis, Ella A	(1898-1901)	17 Buttles Ave., Columbus, Stenographer
Davis, Harriet Jane	(1899-1900)	
Davis, Vernon Hayes, B. Sc. (Agr.)	1900	M. S. A., Cornell, 1901, Columbus, Assistant Professor in Horticulture, O. S. U.
Davis, William W	(1900-1901)	Newark, Proprietor of Creamery
Day, Albert E., B. Sc. (Agr.)	1902	Mt. Carmel, Dairy Farmer
Decker, Melville Clarence	(1894-1895)	Findlay, Farmer
DeFrees, Raymond G	(1901-1902)	Troy, Field Assistant, U. S. Geological Survey.
Degenfelder, Joseph Charles	(1901-1902)	Swanton, Dairy Farmer
Demorest, Herbert Russell	(1897-1900, 1901-1902)	Grove City, Farmer
Denmington, Wilbur Stanley	(1898-1899)	Deckard, Pa., Buttermaker and Dairyman
Derby, Florence, B. Ph., 1896; B. Sc. (D. Sc.)	1901	161 W. Eleventh Ave., Columbus, Mrs. C. E. Haigler.
Devol, William Stowe, B. Agr	1886	Redlands, Cal., Newspaper Reporter
DeVore, David George	(1901-1902)	Red Oak, Farmer
Dille, Charles Wallace	(1896-1897)	Cleveland, Lawyer
Dixon, Eva Nickolson	(1897-1898, 1899-1901)	5229 W. Morgan St., St. Louis, Mo., Domestic Science Teacher in Mrs. Ball's School for Girls.
Dock, Norton	(1899-1901)	2357 Wheeler St., Cincinnati, Student College of Veterinary Medicine, O. S. U.
Dodds, Austin Everett	(1894-1895)	Tranquility, Stock Farmer
Dovel, Boyton	(1898-1899)	Pickerington
Downs, Isham Frank	(1901-1902)	Waterville, Farmer
Dresbach, Mary, B. Sc. (D. Sc.)	1901	Columbus, Mrs. Joseph Clevenger
Duncan, Donley H	(1896-1897)	Ludlow, Farmer
Dunham, Alonzo H	(1894-1896)	108 N. Ludlow St., Dayton, Physician
Dunlap, S. Arthur	(1900-1901)	Williamsport, Farmer
Dunlap, Frederick	(1899-1901)	Ithaca, N. Y., Student, College of Forestry, Cornell University.
Dunlap, John Hyde	(1895-1896)	Williamsport, Farmer
Dunlap, Renick, W., B. Sc. (Agr.)	1895	Kingston, Farmer
Dunn, Hattie Franklin	(1900-1902)	3443 Evans Place, Clifton, Cincinnati, Teacher, Domestic Science, The Bartholomew Clifton School.
Durbin, Theodore	(1897-1898)‡	Danville, Cheesemaker
Durkee, Ray H	(1896-1897)	R. R. No. 1, Grafton, Buttermaker
Dutton, Charles A	(1901-1902)	Fredericktown, Employe Licking Co. Creamery.
Duval, Harding H	(1900-1901)	Wellsburg, W. Va., Supt. of Teams on Wabash R. R.

Dwyer, H. E.	(1900-1901)	Harvey, N. Dak., School Teacher
Dyar, Harry Spencer	(1896-1897)	Marietta, Oil Driller
Ealy, Simon P.	(1901-1902)	Black Lick, Buttermaker
Egbert, Knott Crockett, B. Agr.	1890	M. S., Cornell, 1901, Yainax, Oregon, Supt. Indian School.
Eisele, Bessye Thelma	(1901-1902)	978 S. Wilson Ave., Columbus, Mrs. Ralph F. Hirsch.
Ellison, Andrew W.	(1901-1902)	167 W. Wayne St., Ft. Wayne, Ind., Employe Mondamin Meadow Dairy Co.
Elzey, Charles	(1901-1902)	Chillicothe, Buttermaker, Sears & Nichols Dairy Co.
Ensign, Ernest Henry	(1898-1899)	Willoughby, Foreman Willoughby Creamery
Ensminger, Harriet M.	(1900-1901)‡	Columbus
Erf, Oscar, B. Sc. (Agr.)	1899	Urbana, Ill., Instructor in Dairy Manufactures University of Illinois.
Ertel, A. Wilbur	(1901-1902)	Oregonia, Farmer
Erven, Orrin W.	(1900-1901)	R. R. No. 1, Grand Rapids, Farm Superintendent.
Evans, B. W.	(1894-1895)‡	Columbus
Evans, William B.	(1892-1893)	71 S. Sixth St., Newark, Foreman Newark Lumber Co.
Everett, S. J.	(1898-1899)	Silo, Creameryman
Everett, William Russell	(1899-1900)	Gnadenhutten, Farmer
Ewart, John W.	(1899-1900)	R. R. No. 1, E. Akron, Dairy Farmer
Fain, John Richard, B. Sc.	(1901-1902)	Knoxville, Tenn., Foreman of Experiment Farm.
Falknor, E. A.	(1897-1898)	Dayton, Clerk Erie R. R.
Farnsworth, Delmar J.	(1892-1893)	Waterville, Manager of Telephone Exchange
Fauver, Clare	(1901-1902)	Ridgeville Corners, Student
Fauver, Lorenzo D.	(1900-1902)	Ridgeville Corners, Stock Farmer
Fawcett, Arthur J.	(1893-1894)	Akron, Bookkeeper Barberton Pottery Co.
Fearn, Nellie	(1897-1898)	Columbus
Fenner, Frank C.	(1891-1892)	Plymouth, Farmer
Finlay, Annetta	(1898-1900)	R. R. No. 3, Coshocton, Demonstrator
Finlay, Thomas K.	(1897-1899)	R. R. No. 3, Coshocton, Farmer
Fippin, Edgar John	(1901-1902)	Grove City, Farmer
Fippin, E. O., B. Sc. (Agr.)	1900	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Field Assistant in U. S. Soil Survey.
Fischer, Paul, B. Sc. (Agr.)	1891	D. V. M., 1892, Sta. "A," R. R. No. 2, Columbus, State Veterinarian.
Fischer, Walter	(1893-1896)	B. Sc., 1897. Mann, Fla.
Fisher, Elmer E.	(1897-1898)	Lincoln, Neb., Medical Student, L. M. C.
Fisher, Margaret Willimina	(1898-1899)	494 W. Sixth Ave., Columbus
Fisher, Milo E.	(1899-1901)	Chili, Dairyman
Fitts, Rollin	(1894-1899)	276 Orchard St., Marion, Machinist
Flickinger, George A., B. Sc. (Agr.)	1898	R. R. No. 7, Knoxville, Tenn., Dairy Farmer and Gardener.
Florence, George	(1891-1892)	R. R. No. 5, Circleville, Stock Farmer
Flory, Charles Henry	(1898-1900)	Arcanum, Student, O. S. U.
Folsom, James A.	(1900-1902)	Franklin Furnace, Farmer
Forsythe, John B.	(1895-1896)	Rushsylvania, Manager-Secretary and Buttermaker of the Rushsylvania Creamery.
Foster, Fred May	(1894-1896)	Died, May 18, 1900, Kingston
Foster, John C.	(1898-1901)	Corner Twelfth St. and Wabash Ave., Chicago, Ill.
Foster, Michael Leander	(1899-1900)	Brownhelm, Swiss and Cheddar Cheesemaker
Fox, Charles F.	(1897-1898)	Canal Dover, Florist and Gardener
Fox, Charles P., B. Agr., 1890; M. Agr.	1895	Akron, Diamond Rubber Co.
Fox, Louis H.	(1900-1901)	Union, Teacher

Frame, Mabel Florence	(1900-1901)	Washington
Frank, J. N	(1900-1902)	North Amherst, Farmer
Frazier, S. H	(1898-1899)	R. R. No. 24, Dresden, Farmer
Freyre, Alexander	(1901-1902)	Santa Fe, Argentine Republic, S. A., Student, Michigan Agricultural College.
Frink, Clarence B	(1900-1901)‡	Fort Lupton, Col.
Galehouse, David William	(1896-1901)	Seed Division, Bureau of Plant Industry, U. S. Dept. Agr., Washington, D. C.
Garity, Benjamin Joseph	(1896-1897)	Mt. Vernon, Farmer
Garner, Clarence Harris	(1897-1898)	New Concord, Stock Farmer
Gault, Thomas C	(1900-1901)	Fernwood, Farmer
Gearing, B. L	(1897-1898)	
Geckler, Charles F	(1891-1894)	104 Mechanic St., Cleveland, Traveling Salesman.
Gephart, George Washington	(1894-1895)	Miamisburg, Farmer
Gerdeman, J. Fred	(1900-1901)	Ottawa, Stock Farmer
Getz, F. L	(1893-1894)	
Gibson, Herbert R	(1896-1897, 1898-1899)	Fowler's Mill, Creameryman
Gilmore, Walter Hayes	(1896-1899)	Baltimore, Farmer
Gilmore, William Henry, B. Sc. (Agr.)	1899	Basil, Stock Farmer
Givens, David Albert	(1895-1897)	Culver, Minn., Woodsman
Givens, Warner Hayes	(1897-1898)	Elva, Sta., DeKalb Co., Ill., Dairy Farmer
Givens, Warren Wheeler	(1897-1898)	DeKalb, Ill., Farmer
Gladding, M. M	(1897-1900)	Windsor, Dairy Farmer
Glass, F. I	(1901-1902)	Cold Springs, Ind., Farmer
Glathart, Harry Aaron	(1891-1892)	704 South St., Findlay, Civil Engineer
Glock, Edward Hoover	(1896-1897)	
Goddard, Harford Bishop	(1896-1897)	R. R. No. 1, Belpre, Stock Farmer, Breeder of Polled Durham Cattle.
Goodwin, Clare T	(1896-1897)	Columbia Station, Farmer
Gove, Charles Frederick	(1897-1898)	Oregonia, Creamery Operator
Graber, Frank	(1901-1902)	Mt. Eaton, Farmer
Graber, Christian	(1899-1900)	Burton, Cheesemaker
Graham, John Edward	(1893-1894)	Raccoon Island, Farmer and Fruit Grower
Grant, A. M	(1892-1893)	
Graw, Maud Elizabeth	(1900-1901)	Carthage, Ill., Teacher Domestic Science, Carthage College.
Greenlee, Edward Hood	(1896-1897)	Died 1898, Bridgeport
Greenlee, James Ross	(1898-1899)	Lansing, Dairy Farmer
Gregory, William Moody	(1897-1898)	Elizabeth City, Dairy Farmer
Griffith, W. I	(1898-1899)	Galena, Farmer
Grimes, Charles Wilson	(1897-1898)	Greenwich, Buttermaker
Grisier, Darcy B	(1894-1895)	Fayette, Dealer in General Farm Produce
Hagerman, Will Carlton	(1901-1902)	Mansfield
Hains, Edna Esther	(1897-1898)‡	Bloomingburg
Hamilton, William C	(1892-1894)	R. R. No. 14, Zanesville, Farmer
Hanna, Charles M	(1899-1901)	R. R. No. 3, Shelby, Farmer
Hanna, Hortie L	(1900-1901)‡	Garrettsville
Hard, Jesse M	(1898-1900)	Elmwood, Stock Farmer
Harn, George Upton	(1898-1899)	194 Wilson Ave., Columbus, Clerk U. S. Weather Bureau.
Harper, Merritt, B. Sc. (Agr.)	1901	M. Sc., University of Illinois, 1902; Columbus, Mo., Assistant Animal Husbandry, University of Missouri; Special Agent in Plant and Forage Crop Investigation for U. S. Dept. Agr.
Harris, Melvin J	(1897-1898)	Garrettsville, Farmer
Harry, Willis Grant	(1896-1897)	Georgetown, Demerance, B. G., S. Amer.
Harter, John Hoyt	(1892-1894)	R. R. No. 3, Delaware, Farmer

Hathaway, Ralph	(1900-1901)	Scipio Siding, Farmer
Hawley, Wilbur	(1896-1897)	Pataskala, Dairy Farmer
Hayden, Cassius Clay, B. Sc. (Agr.)	1901	Madison, Wis., Special Student, University of Wisconsin.
Hayes, Richard Miles	(1901-1902)	Wick, Cheesemaker
Heath, Harry Roger	(1898-1899)	Mason City, Iowa, Traveling Salesman, Sharples Dairy Separator Co. of Chicago, Ill.
Heller, John S	(1899-1900)	Ona, W. Va., Farmer
Henderson, Frank A	(1894-1897)	Died, September 27, 1898, McConnelsville
Herrick, Hobert C	(1899-1901)	Wellington, Farmer
Hershey, B. W	(1897-1899)	Easton, Stock Farmer
Hess, Flora Louise	(1898-1901)	Station "B," Columbus, Art
Hiatt, Frank W	(1901-1902)	Gratiot, Buttermaker
Hill, George B	(1900-1901)	Piqua, Farmer
Hill, I. F. Reynolds, B. Sc. (H. and F.)	1896	Missouri Botanical Garden, St. Louis, Mo., Agent, Bureau of Forestry, U. S. Dept. Agr.
Hill, Mamie Faye, B. Sc. (D. Sc.)	1902	152 W. Woodruff Ave., Columbus, Teacher of Domestic Science.
Hill, Walter Centennial	(1894-1895)	Cleveland, Medical Student, Western Reserve Medical College.
Hiltner, Philip	(1894-1895)	Landeck, Farmer
Hine, James Stewart, B. Sc (H. and F.)	1893	Columbus, Associate Professor of Zoology and Entomology, O. S. U.
Hitchcock, Lester	(1901-1902)	R. R. No. 4, Galena, Creamery Employe
Hoff, Walter A	(1894-1897)	Columbus, State Inspector Central Union Telephone Co.
Holderman, George Leland	(1891-1892)‡	Kingston, Farmer
Holloway, Carrie	(1898-1902)	Columbus
Holmes, Ernest	(1898-1899)	Shreve, Creameryman
Holt, David C	(1899-1900)	Galloway, Agent Alpha Separator
Hood, Sherman, B. Sc. (H. and F.)	1894	Mineral Ridge, Market Gardener
Hoover, Edna	(1899-1901)	Columbus
Hoover, Louis C	(1898-1899)	West Salem, Clergyman
Horst, David H	(1897-1898)	Dalton, Farmer
Hosmer, V	(1900-1901)	R. R. No. 2, Middlefield, Farmer
Houston, Morris C	(1897-1898)	Mechanicsburg, Farmer
Hoyt, Corydon Albert	(1891-1892)	Rock Creek, Farmer
Huddleston, Herbert	(1901-1902)	Guilford, Ind., Farmer
Hudson, James F	(1900-1901)	Windham, Agent for Creamery Supplies
Huenke, Clifford V	(1901-1902)	New Bremen, Manager and Secretary White Mountain Creamery.
Huff, Haines	(1894-1896)	Leesburg, Railway Postal Clerk, Grafton and Cincinnati R. P. O.
Hugenholtz, Paul	(1897-1898)	
Hulburt, H. C	(1896-1897)	R. R. No. 2, Seville, Farmer
Hunt, Claude Percival	(1900-1901)	Bennett's Corner, Farmer
Hunt, Mary	(1897-1898)	Died, December, 1898, Ridott, Ill
Hunter, William Forest, Jr	(1892-1893)	Station "C," Columbus, Farmer
Hyde, Robert Linton	(1901-1902)	Frankfort
Hynes, Clifton E	(1900-1901)	Windham, Creamery Operator
Imes, Marion, B. Sc. (Agr.)	1899	D. V. M., 1900, 316 Exchange Building, Chicago, Ill., U. S. Inspector B. A. I., U. S. Dept of Agr.
Immell, Woodford Elias	(1898-1899)	Chillicothe, Farmer
Innis, Byron S	(1899-1901)	Wagram, Stock Farmer
Irvine, James	(1898-1899)	Richmond, Farmer
Irwin, Arthur M	(1899-1901)	Entiat, Wash., Manager of Belvidere Ranch
Jackson, Walter Charles	(1898-1899)	South Kortright, N. Y., Buttermaker
James, Harold Francis	(1899-1900)	

Janton, Alexander	(1896-1897)‡	Columbus
Jefferson, John Howard	(1900-1902)	Madison Mills, Farmer
Johnson, Homer E.	(1900-1901)	East Orwell, Supt. Orwell Elgin Butter Co.
Johnson, Lisle M.	(1895-1896)	R. R., N. Jackson, Farmer
Johnston, Frederick S., B. Sc. (Agr.)	1899	College Station, Texas, Professor of Agriculture.
Jones, Hosea Henderson	(1893-1894)	Radnor, Farmer
Jones, Lewis	(1898-1899)	Penfield, Farmer
Jossie, Gotfred	(1901-1902)	North Georgetown, Dairyman
Jotter, Ernest Victor	(1900-1902)	Monroe, Employe, Topical Bible Pub. Co.
Joyce, Mary Gertrude	(1897-1898)	493 N. High St., Columbus, Mrs. Alden Bush
Karnes, John Miller	(1894-1895)	New Petersburg, Farmer
Kauffman, Margaret, B. Ph.	(1901-1902)	O. S. U. Campus, Columbus
Kaylor, Rollie Washington	(1899-1900)	Waynesville, Operator Skimming Station
Kelley, William L.	(1897-1900)	R. R. No. 7, Newark, Dairyman
Kellough, Jesse P.	(1894-1895)	Washington C. H., Stock Farmer
Kelly, Galeria May Belle	(1898-1899)	Columbus, Elocutionist and Teacher of Physical Culture.
Kent, Mary	1898-1899)	
Kerr, Franklin H.	(1892-1893, 1895-1896)	Cooperton, Kiowa Co., Okla., Stock Farmer
Kiddle, F. W.	(1895-1896)	West Williamsfield, Proprietor Feed and Saw Mill.
King, J. C.	(1898-1899)	Box 360, Fremont, Employee U. S. Express Co.
King, John Henry	(1895-1896)	Raccoon Island, Farmer
King, Michael A.	(1900-1901)	Haviland, Farmer
Kinney, Charles C.	(1899-1900)	Yellow Springs, Farmer
Kirk, Edward Cassius	(1898-1899)	R. R. No. 2, Shiloh, Farmer
Klein, Edith May	(1899-1901)	Columbus
Kockers, Peter J.	(1893-1894)	1351 Lexington Ave., Cleveland, Commission Business.
Kohls, Frank Joseph	(1892-1893)	Ottawa, Manager Hotel Kohls
Kolbe, Lawrence Albert	(1897-1899)	North Amherst, Student Oberlin College
Kuenzli, James Arthur	(1893-1894)	Upper Sandusky, Stock Farmer
Kumler, Ed.	(1901-1902)	Basil, Buttermaker
Kynett, Albert Gardner	(1900-1901)	Middletown, Operator Skimming Station
Ladrach, John J.	(1899-1900)	Birmingham
Ladrach, Lewis F.	(1898-1899)	Eaton, Col., Carpenter
Lakin, Arthur S.	(1896-1897)	295 Twenty-first St., Columbus, Locomotive Fireman, P. C. C. & St. L. R. R.
Langdon, Elmer C.	(1899-1901)	Sabina, Student, College of Veterinary Medicine, O. S. U.
LaRue, Almon	(1891-1892)	Convoy
Laughlin, Joseph Gibson	(1893-1894)	McArthur, Minister
Lawrence, Mortimer William	(1891-1894)	Cleveland, Vice-President Lawrence Pub. Co., Publishers of Ohio Farmer and Michigan Farmer.
Lawson, J. W.	(1901-1902)	Trotwood, Buttermaker
Lee, Vernon W.	(1892-1893)	New Plymouth, Farmer
Leonard, W. Elmer	(1891-1895)	Sciotoville, Supt. for Portsmouth and Kentucky Fire Brick Co.
Leyda, Manton Odell	(1894-1895)	Pattersonville, Dairy Farmer
Liles, Frederick William	(1897-1899)	Collins, Stock Farmer
Linberg, Charles G.	(1900-1901)	Erie, Pa., Traveling Salesman
Lindley, Lulu	(1899-1901)	Cornwall-on-the-Hudson, N. Y., Matron of Cornwall Heights School.
Linsley, Frank P.	(1899-1900)	Gallipolis, Farmer and Fruit Grower
Long, Frederick Pontius	(1897-1899)	Kingston, Farmer
Long, J. Paul	(1900-1902)	Centerburg, Farmer
Loomis, Charles Clarence	(1901-1902)	Scotch Ridge, Farmer

Loomis, Humbert H.	(1896-1899)	Deerfield, Dairy Farmer
Lunn, B. V.	(1901-1902)	1432 N. High St., Columbus, Grocer and Dairyman.
Lutz, Ray	(1891-1895)	Fremont, Farmer
McAlister, Lee Paden	(1899-1901)	
McCall, A. G., B. Sc. (Agr.)	1900	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Scientist; Assistant in Physical Laboratory.
McCallum, Raymond	(1900-1901)	Dayton, Chemist and Foreman, Jas. McCallum & Co., Fertilizer Plant.
McClellan, J. Arthur	(1897-1899)	Cable, Dairyman
McClelland, Chalmer Kirk, B. Sc. (Agr.)	1898	M. S. A., Cornell, 1902, W. Raleigh, N. C., Assistant Professor of Agriculture, North Carolina A. & M. College.
McClure, W. W.	(1898-1899)	Union City, Ind., Stock Farmer
McCormick, Earl Leander	(1896-1897)	Gallipolis, Dry Goods Merchant
McCullough, Clark W.	(1895-1897)	R. R. No. 1, Steubenville, Stock Farmer
McCullough, William Cleland	(1892-1893)	Bucyrus, Attorney-at-Law
McDaniels, Fred Kimball	(1896-1897)	Est de Wadley, San Luis Potosi, Mex., Supt. Antimony Mines and Smelter.
McFarlane, Ellis	(1897-1898)	New Bedford, Pa., Farmer
McHenry, J. B.	(1895-1896)	Vineyard Hill, School Teacher
McKay, Weldon Nickerson	(1897-1899)	New Burlington, Farmer
McKinley, Ira Esdras	(1899-1900)	Olympia, Ky., Driller
McLaughlin, Grace	(1900-1901)	
McLaughlin, Harold	(1898-1899)	Smith Place, Columbus, Merchant
McLaughlin, Henry	(1893-1894)‡	Thornville
McMannis, A. T.	(1893-1894)	127 Ind. Ave., Toledo, Market Garden Salesman.
McMillan, Fred D.	(1900-1901)	R. R. No. 2, Medina, Cheese Manufacturer
McMullen, F. P.	(1901-1902)	New Douglass, Ill., Buttermaker
McNaughton, Stewart Alex	(1895-1896)	1159 E. Rich St., Columbus, Merchant
McOwen, Thomas	(1897-1899)	Akron, Assistant on C., A. & C. Engine Corps.
Mackey, James Earl	(1897-1898)	Richfield, Farmer
Mallow, H. C.	(1900-1901)	Washington C. H., Student, College of Veterinary Medicine, O. S. U.
Mangold, E. F.	(1900-1901)	Assistant in Dairy Laboratory, O. S. U.
Manville, Herbert Emery	(1896-1897)	Pharisburg, Farmer
Marion, Walter J.	(1897-1899)	Ashville, Horticulturist
Mark, Clara Gould	(1900-1902)	Milo, Student, Arts College, O. S. U.
Markel, Dora	(1901-1902)	R. R. No. 1, Kingston, Student, Bliss Business College.
Marshall, Ida, B. Sc. (D. Sc.)	1902	Hemlock
Martin, John R.	(1891-1892)	R. R. No. 2, Medina, Dairy Farmer
Mason, Arthur D.	(1897-1899)	Wellington, Farmer
Mayers, M. L.	(1898-1899)	
Mays, James Wesley	(1893-1894)	217 S. Broadway, Los Angeles, Cal., Attorney-at-Law.
Meacham, Van Floran	(1891-1892)	Atwater, Farmer
Mears, W. H.	(1899-1901)	S. Charleston, Stock and Grain Farmer
Meek, Eunice	(1898-1900)	Afton
Meiche, Louis	(1898-1900)	Cleveland, Student, College of Veterinary Medicine, O. S. U.
Mellen, Otis E.	(1900-1901)	Streetsboro, Cheesemaker
Mendenhall, Eugene Warren	(1893-1896)	Eugene, Attorney-at-Law and Farmer
Mendenhall, John L.	(1894-1895)	R. R. No. 2, Malta, Farmer
Mercer, Worley Deforest	(1891-1892)	McConnelsville, Physician and Surgeon
Mergler, Jacob C.	(1898-1899)	Mt. Washington, Student, Marietta College
Merwine, Edson A.	(1896-1898)	R. R. No. 4, Bellville, Dairy Farmer

Metcalf, Walter Charles	(1898-1899)	Granger St., Cleveland, Draftsman
Millar, Michael Seymour	(1895-1896)	S. Bloomfield
Miller, Carl James, B. Sc. (Agr.)	1898	Franklin, Stock Farmer
Miller, Ed	(1900-1901)	Wichita, Kansas, Cheesemaker
Miller, Henry Alexander	(1898-1899)	Gypsum, Horticulturist
Miller, Maynard Everett	(1899-1900)	Dodgeville, Dairyman and Creamery Operator.
Miller, Merritt Finley, B. Sc. (Agr.)	1900	M. S. A., Cornell, 1901, Columbus, Instructor in Agronomy, O. S. U.
Miller, Morris B	(1900-1901)	Springboro, Creamery Operator
Milliman, Prescot	(1893-1895)	Milan, Farmer
Mills, W. C., B. Sc. (H. and F.)	1898	Columbus, Curator Archaeological Dept., O. S. U.
Minnich, Otto William	(1897-1898)	Zanesville, Farmer
Minnich, F. J	(1897-1898)	Black Run, Buttermaker
Montgomery, Frank	(1898-1899)‡	Columbus
Mooney, Charles N., B. Sc. (Agr.)	1900	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Assistant in Soil Survey.
Moorehead, Robert Henderson	(1896-1897)	Zanesville, Employe of Braun Mfg. Co.
Morley, Ida Mae	(1896-1897)	
Morrow, Clarence G	(1895-1896)	Pittsburg, Pa., Nurse West Penn. Hospital
Morrow, John W	(1893-1894)	Died, October, 1898, Bogart
Morton, Charles O	(1900-1902)	Burton, Dairyman and Breeder of Ayrshire Cattle.
Mowry, Edward Philip	(1896-1897)	Monroeville, Manager Star Creamery Co.
Mull, Ernest Clinton	(1898-1899)	Columbus, Bookkeeper
Murphy, Farrah C	(1894-1896)	Sunbury, Dairy Farmer
Murray, Edna Earl	(1898-1900)	343 Wilbur Ave., Columbus, Mrs. C. G. McLaughlin.
Murray, J. B	(1898-1899)	Penfield, Butter and Cheesemaker
Naret, William F	(1900-1901)‡	Morgantown, W. Va.
Nash, Dell Henry	(1901-1902)	Mantua, Farmer
Neill, Nelson Prentice, B. Sc. (Agr.)	1901	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Assistant in Soil Survey.
Nelson, Fred B	(1899-1900)	Brooklyn, N. Y., Civil Engineer; Assistant in Water Waste Supply.
Nelson, Fred W	(1899-1901)	Salem Center, Farmer
Neptune, Orries Bird	(1900-1901)	Loudonville, Creamery Operator
Nettleton, Albert Warren, B. Sc. (Agr.)	1898	R. R. No. 2, Medina, Farmer
Nettleton, Edward	(1898-1899)	R. R. No. 2, Medina, Farmer
Newcomb, Howard Robinson	(1900-1901)	Burton, Dairy Farmer
Newton, Sheldon Watrous	(1896-1899)	Boardman, Farmer
Nichelson, Charles	(1892-1893)	Plattsburg, Stock Farmer
Nichols, Orra A	(1901-1902)	295 W. Washington St., Los Angeles, Cal., Carpenter.
Nidy, A. V	(1896-1897)	
Noice, Blaine G	(1900-1901)	124 Avondale Ave., Columbus, Carpenter
Notman, Walter	(1894-1895)	Deerfield, Farmer
Ohlemacher, John Jacob	(1897-1898)	Prout's Station, Motorman
Oliver, Charles R	(1899-1900)	Portersville, Pa., Buttermaker
Oliver, Robert E	(1900-1902)	Chillicothe, Student, College of Veterinary Medicine, O. S. U.
Orebaugh, Ralph W	(1901-1902)	Thomas, W. Va., Mining Engineer
Orton, Louise Taft	(1899-1900)	401 W. Sixth Ave., Columbus, Mrs. F. C. Caldwell.
Osborn, Harry L	(1899-1901)	Chardon, Farmer
Osborn, Alice	(1898-1900)	Cadiz, Teacher
Owens, Walter Raleigh	(1897-1898)	S. Chestnut St., Van Wert, Stationary Engineer.
Oyler, Charles E	(1901-1902)	Lithopolis, Buttermaker

Paddock, Benjamin	(1900-1901)	122 Section Ave., Hartwell, Dairyman
Palmer, Mary Ella	(1897-1898)	Kansas City, Mo.
Palmer, R. Jay	(1897-1899)	Penfield, Farmer
Parker, H. E.	(1901-1902)	Mantua, Butter and Cheesemaker
Parks, William C.	(1896-1897)‡	Hopedale, Salesman
Parrett, Marvin Noyes	(1892-1893)	1521 Deloss St., Indianapolis, Ind., Fireman
Parsons, John Strong	(1896-1898)	Rootstown, Farmer
Patridge, B. M.	(1897-1898)	Linden Heights, Teacher
Paterson, Andrew Wylie	(1900-1901)	Perkins, Dairy Farmer
Patterson, Mrs. George T.	(1897-1898)	
Paterson, William Adolphus	(1894-1895)	Died, July 12, 1898, Kensington
Patton, Robert L.	(1894-1895)	Bridgeport, Ill., Farmer
Pemberton, Harvey Cannon	(1894-1895)	Cleveland, Salesman
Pennybacker, Marion Stone	(1891-1892)	Wichita, Kansas, Traveling Salesman
Perry, Elma Brooks, B. Ph and B. Sc. (D. Sc.)	1901	Menominee, Wis., Head of Stout's Manual Training School and Instructor in Domestic Science.
Perry, John Cole, B. Sc. (Agr.)	1901	Copopa, Farmer
Persing, Matthias James	(1894-1896)	Clyde, Fruit and Truck Farmer
Pessell, J. B.	(1900-1901)	768 Scranton Ave., Cleveland, Buttermaker Cottage Creamery Co.
Peters, Francis	(1899-1900)‡	27 N. Ohio Ave., Columbus
Petty, Hazlett William	(1901-1902)	Pickerington, Buttermaker
Pfarr, Philip L., Jr., B. Sc. (Agr.)	1896	Riverside, Okanogan Co., Wash., Farmer
Pheneger, George R.	(1901-1902)	Tolumne, Tolumne Co., Cal., Buttermaker
Phillips, John Howard	(1898-1899)	Died 1898, Centerburg
Phillips, John C.	(1896-1898)	Bath, Cheesemaker
Phillips, Josiah M.	(1891-1893)	Defiance, Teacher
Phinney, Charles Amos	(1892-1893)	
Pierce, Benjamin M.	(1897-1899)	
Pinkvoss, Rolf	(1901-1902)	Camp Dennison, Dairy Farmer
Plumb, C. S., B. S., Mass. Agr. College, 1882	(1895-1896)	Columbus, Professor of Animal Husbandry, O. S. U.
Pollock, Charles Hamilton	(1897-1898)	R. R. No. 4, Cambridge Springs, Pa., Dairy Farmer.
Portman, Herbert R.	(1900-1901)	R. R. No. 1, N. Amherst, Farmer and Swiss Cheesemaker.
Postle, Carlton David	(1898-1899)	R. R., Camp Chase, Student, O. S. U.
Postle, Florence	(1897-1899)	Washington, D. C., Mrs. E. O. Fippin
Postle, Stuart A.	(1896-1899)	Camp Chase, Farmer
Powell, Ernest	(1891-1892)	R. R. No. 1, Van Wert, Farmer
Pratt, Jean Paul	1900-1901)	1546 Neil Ave., Columbus, Student, Arts College, O. S. U.
Price, Homer C., B. Sc. (Agr.)	1897	Ames, Iowa, Professor of Horticulture, Iowa State College.
Price, William R.	(1896-1897)	Died, April, 1899, Mineral Ridge
Priest, Frederick	(1892-1893)	D. V. M., 1895, 2515 Wabash Ave., Chicago, Ill., Meat Inspector.
Pugh, Stanley D.	(1891-1892)	501 Spahr Bldg., Columbus, Assistant Engineer C., S. & H. R. R.
Randolph, Frank Monroe	(1894-1896)	R. R. No. 1, New Lexington, Teacher and Farmer.
Rane, Frank William, B. Agr.	1891	M. Sc., Cornell, 1892, Durham, N. H., Professor of Horticulture and Forestry, N. H. State College.
Rarick, Murray M., B. Sc. (Agr.)	1896	Jacksontown, Physician
Ream, Earl S.	(1897-1898)	Phoenix, Arizona, Ranch Manager
Reece, Charles Elwood	(1893-1894)	Bucyrus, Stock Farmer

Reed, Oscar W	(1894-1895)	Lebanon, Buttermaker and Foreman
Reed, Joseph Robert	(1896-1897)‡	Blanchester, Dairyman
Reno, Mell Lewis	(1898-1899)	South Sharon, Pa., Dairyman
Reppert, Alda	(1898-1899)‡	Columbus
Rexroth, Royal A	1898-1899)	Bucyrus, Stock Farmer
Reyes, Julio	(1900-1901)	Buenos Ayres, Argentine Republic, S. A.
Rice, Mabel Elise	(1898-1899)	277 Harkness Ave., Cleveland, Mrs. Wm. E. Minshall.
Richards, Don Arthur	(1899-1900)	1086 Superior St., Cleveland, Student, College of Dentistry, Western Reserve.
Richardson, Hamilton Hutchinson, B. Agr.	1892	South Brooklyn, Vegetable and Fruit Grower
Ridinger, John G	(1897-1899)	Killed, June, 1899, Kalida
Ridings, Jesse Owen	(1893-1894)	Goshen, Teacher and Farmer
Riggs, Earnest J., B. Sc. (H. and F.)	1895	M. Ss., Cornell, 1896, Raccoon Island, Fruit Grower and Stock Farmer.
Riley, Valeria	(1896-1900)	Washington C. H., Teacher of Domestic Science at Godman Guild House, Columbus.
Roadarmer, Harry	(1897-1898)	3156 Stout St., Denver, Col., Salesman at Littleton's Creamery.
Robb, Wyman Speer	(1897-1898)	New Concord, Student, Muskingum College
Roberts, John L	(1894-1895, 1897-1899)	Wanakah, N. Y., Foreman Lumber Resort and Dairy Farm.
Rodegeb, Charles A	(1895-1896)	Ariel, Wash., Farmer
Rogers, Dwight Eugene	(1895-1896)	Grafton, Driller for Oil and Gas
Rogers, John Wesley	(1895-1896)	Bloomingburg, Manufacturer
Rogers, Truman	(1900-1901)	Leadville, Col., Miner
Rood, Venious Ardie	(1893-1895)	Loveland, Col., Farmer and Owner of Sugar Factory.
Roscoe, Frank B	(1893-1895)	Greenwich, Farmer
Ross, Amos Loren	(1897-1898)	City of Romblon, P. I., Soldier and Teacher in Government Schools.
Ross, John L	(1900-1901)	North Eaton, Manager Excelsior Creamery Co. at Ridgeville, O.
Ruhl, George P	(1900-1901)	Alexandria, Creamery Operator
Ruhlen, Frank, B. Sc. (Agr.)	1896	Columbus, Instructor in Zootechny, O. S. U.
Ruhlen, LaMotte, B. Sc. (Agr.)	1892	Plain City, Farmer
Rutan, Benjamin Milton	(1893-1895)	Marysville, Creamery Operator and Manager
Rutan, David	(1897-1898, 1900-1901)	Spring Valley, Creamery Operator
Rutan, Hiram E	(1900-1901)	Spring Valley, Creamery Operator
Rutan, Maida	(1894-1895)	Mechanicsburg, Mrs. Bullard
Sanders, Boston C	(1897-1898)	R. R. No. 1, Steubenville, Farmer
Saum, Joseph Lincoln	(1891-1892)	Antwerp, Farmer
Sayre, Eliz Morgan	(1898-1899)	754 Neil Ave., Columbus, Teacher of Music, Mrs. Norris.
Schaadt, Martin	(1894-1895)	Blue Mound, Kansas, Creamery Proprietor
Schaeffer, F. W., B. Sc. (Agr.)	1902	W. Fifth Ave., Columbus, Dairyman, Prop. Standard Milk Co.
Schmiesing, Benjamin	(1901-1902)	171 Monticello St., Chicago, Ill., Employe, Montgomery, Ward & Co.
Schroeder, Glen Thomas	(1895-1896)	Washington, Ind., Machinist B. & O. R. R.
Schwendeman, Frank J	(1900-1901)	Greensboro, Ga., Buttermaker
Scott, Edith	(1899-1900)	Mt. Pleasant
Scott, Ernest, B. Sc. (Agr.)	1897	873 N. High St., Columbus, Physician
Scott, Howard T	(1896-1897)	R. R. No. 2, Camden, Farmer
Scroggie, James Hugh	(1894-1895)	Oberlin, Student, Oberlin College
Senter, Pearl	(1898-1901)	Shepard, Mrs. C. B. Carr
Shaffer, Jesse	(1899-1900)	Black Lick, Student in Telegraphy
Sharp, Edmond Maxwell	(1896-1897)	Akron, Bookkeeper
Sharp, Prentice D	(1900-1901)	East Liberty, Farmer

Shaw, Edward Lee, B. Sc. (Agr.)	1902	Columbia, Mo., Assistant in Agriculture, University of Missouri.
Shaw, F. L.	(1893-1894)	
Shaw, James C.	(1892-1894)	Newark, Stock Farmer and Breeder
Sheldon, Helen Griswold	(1898-1901)	Shepard, Student in Kindergarten Work, Columbus.
Shellabarger, Ira G.	(1900-1901)	Garland, Farmer
Shellabarger, Marley R., B. Sc. (Agr.)	1897	Garland, Farmer
Shepard, Allen Day	(1899-1900)	N. Ridgeville, Creameryman
Sherman, Howard C.	(1901-1902)	Mt. Vernon, Buttermaker
Sherwood, Gertrude	(1900-1902)	1281 Neil Ave., Columbus
Shields, Jeannette	(1900-1902)	1442 Cleveland Place, Denver, Col.
Shippee, Henry George	(1898-1899)	
Shriver, Sarah Luella	(1896-1897)	Trinity, Ky., Teacher, Mrs. Waldren
Shumaker, Bertram	(1896-1897)	R. R. No. 2, Seville, Farmer
Sigrist, John Larkum	(1897-1902)	Died, October 28, 1901, Congress
Siler, Leonard E.	(1900-1901)	Topeka, Ind., Buttermaker
Skiles, Blanche, Gertrude	(1898-1900)	Shelby, Mrs. Green
Slater, Burr H.	(1892-1893)	G. Ph., 1895, Chesterville, Druggist
Smith, Elisha	(1897-1898)	Richville, Butter and Cheesemaker
Smith, Leon D.	(1898-1899)	Garrettsville, Buttermaker
Smith, Wilford B.	(1899-1901)	Chesterhill, Farmer
Smith, William David	(1897-1898)	New Concord, Buttermaker
Snell, John	(1901-1902)	West View
Snow, Henry Preston	(1901-1902)	Urbana, Traveling Salesman
Snyder, Addison Hogan, B. Sc. (Agr.)	1901	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Soil Expert.
Solether, C. F.	(1898-1899)	Jerry City, Cashier, Cygnet Savings Bank Co., Cygnet, O.
Spahlinger, George Frederick	(1901-1902)	Windham, Stock Farmer
Spencer, Silas McLaren	(1897-1898)	Rocks, Md., Ice Cream Manufacturer and Creameryman.
Spiers, Charles E.	(1892-1895)	Atwater, Farmer
Spohn, Luis Narcissus	(1900-1901)	Berlin Heights, Farmer
Stafford, J. E.	(1901-1902)	Dayton, Pure Milk and Butter Co.
Stahl, P. E.	(1900-1901)	Wooster, Employe Experiment Station
Staub, Otto	(1901-1902)	New York Mills, N. Y., Butter and Cheesemaker.
Steward, Effie Edith	(1900-1902)	Lisbon, Mrs. C. H. Hermstein
Steward, Charles Benjamin, B. Sc. (Agr.)	1900	R. R. No. 2, Canal Winchester, Stock Farmer and Breeder of Shorthorn Cattle and Poland China Swine.
Stiers, Thomas V.	(1899-1900)	Alexandria, Farmer
Stimmel, John Russell, Jr.	(1896-1897)	R. R. No. 3, Columbus, Farmer
Stock, William Frank	(1901-1902)	Seven Mile, Stock Farmer
Stoughton, Charles Peters	(1897-1898)	Wales Center, N. Y., Farmer
Studer, Benjamin	(1901-1902)	Ellsworth, Buttermaker
Stump, Franklin Pierce, B. Agr.	1892	Convoy, Farmer
Stump, Mrs. Franklin Pierce	(1893-1894)	Couvoy
Sweet, Smith E.	(1894-1896)	R. R. Middlefield, Dairy Farmer
Tarpning, Clifton C.	(1900-1901)	Summit Station, Buttermaker, Summit Creamery Co.
Taylor, Everett Burnee	(1897-1898)	Westerville, Lawyer
Taylor, F. W., B. Sc. (Agr.)	1900	Bureau of Soils, U. S. Dept. Agr., Washington, D. C., Assistant in Soil Survey.
Taylor, Merrill S.	(1892-1894)	Urbana, Farmer
Thayer, Clyde Daniel	(1901-1902)	Buckeye, Arizona, Ranchman
Thomas, Elmer Ellsworth	(1899-1900)	R. R. No. 2, Newark, Farmer
Thomas, Frank Leslie	(1900-1902)	Chesterhill, Teacher
Thompson, Benjamin Sells	(1898-1899)	22 S. Main St., Mansfield, Hardware Salesman

Thompson, Edith Leontine	(1898-1899)	Huron
Thompson, Frank McColgin	(1896-1897)	Georgetown, Fireman, Cincinnati Division, C., N. O. & T. P. R. R.
Thompson, Jay	(1896-1897)	Columbus
Thompson, Jesse Eugene	(1899-1900)‡	Bristolville
Thompson, Joseph J	(1894-1895)	42 W. Fourth Ave., Cincinnati, Piano Tuner
Thornburg, C. E	(1897-1898)	Cloud Chief, Washita Co., Okla., Cotton and Corn Raiser.
Thorne, Bertram H	(1891-1892)	Wooster, Vegetable Grower
Titus, Clarence H	(1894-1896)	Beach Park, Proprietor General Store
Tobias, Dean Abraham	(1900-1902)	Tobias, Stock Farmer
Townsend, Melville W	(1900-1901)	Martinsville, Implement Dealer
Trowbridge, Warren Wesley	(1898-1900)	Painesville, Farmer
Tyler, Fred J., B. Sc. (H. and F.)	1900	Division of Botany, U. S. Dept. Agr., Washington, D. C., Scientific Aid.
Uncapher, J. D	(1897-1899)	R. R. No. 2., Marion, Farmer
Uncapher, William H	(1895-1897)	R. R. No. 2., Marion, Farmer
Vandament, Orin	(1898-1899)	Laurel, Teacher
Van Norman, Herbert E., B. Sc. (Mich. Agr. College, 1897)	(1900-1901)	Lafayette, Ind., Associate Professor of Dairying, Purdue University.
Van Tassel, Charles E	(1901-1902)	Kelly Corners, N. Y., Buttermaker
Vermillion, Arthur H	(1894-1895)	
Vickery, John B	(1898-1899)	
Vine, Oliver Jacob	(1894-1895)	Lemoore, Cal., Buttermaker
Wagner, W. Dow	(1892-1893)	Kenton, Retail Hardware Merchant
Waid, Clarence Wm., B. Sc. (H. and F.)	1898	Wooster, Assistant in Horticulture, Experiment Station.
Waite, Arthur Thompson	(1900-1901)	N. Ridgeville, Dairy Farmer
Walker, Arthur Frederick	(1901-1902)	No. 5 Franklin St., Cleveland, Student, College of Engineering, O. S. U.
Walker, Rolla E	(1900-1902)	Attica, Farmer
Walker, Wallace J	(1892-1893)	Died of Fever, January 22, 1900, in Spanish-American War, at Puerto Rico.
Wampler, Eugene	(1899-1901)	R. R. No. 1, Dayton, Farmer and Breeder of Angus Cattle.
Ward, Benjamin Nelson	(1891-1892)	Died, 1898, Soldier, De Graff
Ward, Harry William	(1898-1899)	154 Wabash Ave., Chicago, Ill., Stenographer, Remington Typewriter Co.
Ward, Philip Emerson	(1893-1895)	B. Ph., 1899, Willoughby, Farmer
Warden, Leonard C., B. Sc. (H. and F.)	1899	Beach Park, Prop. General Store
Watkins, Salem F	(1900-1901)	506 Bowery St., Akron, Dairyman, Akron Pure Milk Co.
Weaver, S. J	(1900-1902)	Leipsic, Farmer
Weber, Sophia	(1900-1902)	382 Schiller St., Columbus
Weinman, George Henry	(1891-1892)	
Weisman, Laura Anna, B. Sc. (D. Sc.)	1900	W. Raleigh, N. C., Mrs. C. W. Burkett
Welch, Fred C	(1900-1901)	655 E. First and Shepard St., Des Moines, Iowa.
Welling, Mary Alice	(1901-1902)	Columbus, Kindergartener
Wells, James Russell	(1891-1892, 1894-1895)	Ben's Run, W. Va., Dairyman
Wentz, John I	(1900-1901)	Bucyrus, Farmer
West, Ada Clare	(1901-1902)	Columbus
West, James Clyde	(1900-1902)	St. Paris, Stock Farmer
West, Richard Sedgwick	(1892-1893)	Rix's Mills
Westwater, W. G	(1893-1895)	150-152 N. Third St., Columbus, Member of Corporation of Engineers, and Plumbers' Supply Co.
Whiley, Thomas Boyce	(1896-1897)	Lancaster, Stock Farmer and Commercial Apple Grower.

Whipp, Wendell Edwin	(1901-1902)	R. R. No. 2, Dayton
Whipple, Charles Mantamion	(1897-1898)	R. R. No. 2, Medina, Dairy Farmer
White, Garret B	(1900-1902)	Wyandot, Stock Farmer
White, J. Maurice	(1894-1895)	R. R. No. 36, New Concord, Stock Farmer
White, Jessie May	(1900-1901)	Reynoldsburg
White, Oscar E	(1900-1901)	Payne, Farmer
Whitehead, Albert	(1895-1896, 1900-1901)	Pataskala, Dairy Farmer
Whitehead, Henry H	(1895-1897)	Jersey, Operator Jersey Skimming Station
Whiting, Charles Tryon	(1894-1896)	Kirtland, Farmer
Whiting, Roy E	(1897-1898)	Austinburg, Farmer
Whitman, Charles Henry	(1898-1899)	Doylestown, Packer in Salt Works
Whitney, Charles Albert	(1895-1896)‡	Philippine Islands
Wilder, V. A	(1901-1902)	Cork, Creamery Operator
Wilken, Walter W	(1897-1898)	Farmersville, Farmer
Williams, R. Lee	(1891-1892)	Pataskala, Druggist
Williamson, F. Glade	(1899-1901)	1534 Neil Ave., Columbus, Concert Work
Willson, Gilbert Carl	(1893-1894)	
Wilson, J. W	(1895-1896)	Youngstown, Laundryman
Wilson, S. M	(1900-1901)	Bloomingburg, Farmer
Wilson, Sherman	(1900-1901)	Loveland, Operator French Bros., Skimming Station, Lebanon.
Winkler, Herbert G	(1894-1896)	Hanging Rock, Market Gardener
Winspeare, Joseph Agar	(1893-1895)	Vickers, Dairy and General Farmer
Wise, Cyrus Newton	(1891-1892)‡	W. Wheeling
Withoft, Clarence W	(1893-1894)	Ft. Valley, Ga., Manager Several Fruit Farms
Wolf, LaVerne Florence	(1899-1900)	Died, Lucas
Wolf, Mary Hulda	(1901-1902)	Campbellstown
Woodruff, James D	(1901-1902)	R. R. No. 1, Zanesville, Creamery Operator and Manager.
Wyman, Thomas	(1900-1901)	Painesville, Assistant Teller, Pioneer Trust Co.
Yeazell, Francis Ward	(1900-1901)	299 W. Sixth Ave., Columbus, Mrs. F. Landacre.
Zeigler, Juan M	(1892-1893)	Canton, Stenographer
Zollinger, J. C	(1900-1901)	Thornville, Farmer and Breeder Aberdeen-Angus Cattle.

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